CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 13, 1911.

CONTENTS.

CONSTRUCTION NEWS:
Railways 15
Electric Railways 15
Light and Power Plants.......................... 15
Bridges 16
Buildings 17
Water Supply and Irrigation.......................... 18
Sewerage 19
Streets and Roads.......................... 19
Manufacturing Plants 20
Miscellaneous Contracts 20
Contract Prices 21
Plans and Specifications on File.......................... 22
List of Contracts Pending.......................... 22
U. S. Possessions and Cuba.......................... 23
EXAMINATIONS 23
INDUSTRIAL NOTES 23
PROPOSALS 23, 24

RAILWAYS.

PENNSYLVANIA.—Pennsylvania R. R.—Press reports state that this company contemplates double tracking the Youghiogheny branch, from Gratztown to Irwin, 9.7 miles, and the Hempfield branch, from Cowansburg to Greensburg, 16 miles. Alexander Shand, Philadelphia, Pa., is Ch. Engr.

NORTH CAROLINA. — Virginia-Carolina Ry.—Press reports are to the effect that an extension is planned from Crandall, Tenn., to Wilkesboro, N. C., about 50 miles. This would traverse a mountain country devoid of railway facilities. Wilton E. Mingea, Abingdon, Va., is Pres.

ILLINOIS.—Chicago, Marseilles & Peoria Ry. Co.—Preparations are being made to secure the right-of-way for a railroad running from Chicago to Marseilles, Streator and Peoria, according to a statement made by Charles M. Nichols, of New York City, who has been working on this project for more than a year. This railroad is not a new proposition, but is a revival of an attempt made 35 years ago, when the Chicago, Peoria & Pekin Ry. was projected from Chicago to Peoria and Pekin. The new road is to commence at Chicago and run through the counties of Cook, DuPage, Kendall, La Salle, Livingston, Woodford and Peoria. It is proposed to construct a branch line from Grand Ridge to Tonica and Oglesby passing through the rich coal field in that vicinity.

MINNESOTA.—Minnesota, Dakota & Western Ry. Co.—This company is planning to build about 150 miles of extensions. The company now operates a freight line from International Falls, Minn., south, thence west to Loman, 23 miles; also 4.5 miles between International Falls and Falls Junction, and the International bridge between Fort Frances, Ont., and International Falls, Minn., with terminals at International Falls. E. W. Backus, Andrus Bldg., Minneapolis, Minn., is Pres.

WYOMING.—Chicago, Burlington & Quincy R. R. Co.—The scheme to build a direct line to Salt Lake City, which has been projected many times, is being again revived. The present plan calls for a line from Gurnsey, Wyo., southwesterly cutting across the northwestern part of Colorado, Routt County, and running nearly due west to Salt Lake City, Utah. Such a line would be approximately 400 miles long, having 170 miles in Wyoming, 80 miles in Colorado and 150 miles in Utah. F. T. Darrow, Lincoln, Neb., is Engr. M. of W.

MONTANA.—Chicago, Milwaukee & Puget Sound R. R.—Another line across the Rocky Mountains is contemplated, according to press reports. According to reports given out in Spokane the line will be built from Lewistown to Great Falls, Mont., and thence it will follow the Sun River to Wood canyon, where the Rockies will be crossed at the headwaters of the Blackfoot River. It will run down along the Swan River to the Big Fork, where is located the plant of the Montana & Idaho Northern Light & Power Co., reported to be the subsidiary company of the St. Paul Railroad, and from there it will run to Kalispell in the Flathead Indian reservation. Leaving Kalispell the line will follow Smith Valley to the headwaters of the Thompson River, and will then either follow Thompson Creek to the Northern Pacific and parallel that line into Spokane, or run down Libby Creek to reach the Great Northern, and will parallel that road into Spokane. The Blackfoot Lumber Co. is building 30 miles of railroad near the Thompson River summit, and engineers declare this road runs a long way beyond the company's timber, and say that the company is controlled by the St. Paul Railroad.

OKLAHOMA.—Ardmore, Duncan & Lawton R. R. Co.—This company, recently incorporated, contemplates building from Ardmore northwest through Duncan to Lawton, a distance of 100 miles. It will traverse the Counties of Carter, Stephens and Comanche. The directors are A. Leighton Howe, Edward Clinton Lee, J. Bonsall Taylor and Elir Sutton, of Philadelphia, Pa.; J. L. Hamon, Fred R. Ellis, R. L. Robertson, Guy C. Robertson and M. S. Simpson, all of Lawton, Okla.

CALIFORNIA.—Southern Pacific Co.—Contracts will be let in the near future, according to press reports, for the construction of a line from Alturas, Cal., to Klamath Falls, Ore.

Another line, a branch from Coluxa to Hamilton, 37 miles, will be built. William Hood, San Francisco, Cal., is Ch. Engr.

QUEBEC.—Canadian Pacific Ry.—Plans are being made for double tracking from Quebec Junction to Ste. Agathe, 50 miles. It is probable that this work will not be started until next year. J. E. Schwitzer, Montreal, Que., is Ch. Engr.

✚BRITISH COLUMBIA.—Canadian Northern Ry.—The Northern Construction Co. and P. Walsh, of Spokane, contractors for the 163 mile section between Vancouver and Kamloops, have awarded sub-contracts as follows: AYLMER BROS. & HEMMING, Vancouver, Hope to Yale, 14 miles; BURNS & JORDAN, Spokane, Wash., Yale east, 14 miles; GEO. CHEW, Spokane, Wash., 7½ miles; GEO. CUNNINGHAM & CO., Greenwood, B. C., 5½ miles to Boston Bar; W. P. TIERNEY, Vancouver, 11 miles; A. E. GRIFFIN & JAMES WELCH, 19 miles, to Lytton; GRANT, SMITH & CO., Seattle, Lytton to Spence's bridge, 23 miles; TWOHY BROS., Portland, Oregon, Spences bridge east, 41 miles; GRANT, SMITH & CO., Seattle, Wash., 30 miles to Kamloops. The work will prove the heaviest since the construction of the Canadian Pacific through the Rockies and will cost between $15,000,000 and $18,000,000; 7,000 men will be employed before October, and 2 years is given to complete the work. Sir Wm. Mackenzie, Pres., returned from England on July 6 and it was announced at Montreal that the Canadian Northern had secured financial backing for the construction of the entire road from the Pacific to the Atlantic; also that within 30 months the railroad would enter Montreal by a tunnel and erect a magnificent terminal there. Sir Donald Mann, Vice-Pres., also announced at Toronto that the C. N. R. R., will shortly begin the construction of the line from Toronto Hamilton and probably to Niagara Falls, using the route of the Electric Development Company's power line for the entire distance.

MEXICO.—The Pachuca, Zimapan & Tampico R. R. that is now under construction between this city and Tampico is finished into the Actopan district. Its extension to Tampico will be pushed forward as rapidly as the construction work can be accomplished according to the statements of the men who are interested in the project. Richard Honey, a wealthy iron manufacturer and banker of Mexico, is at the head of the enterprise. The new line will afford a short transportation route between this city and Tampico.

ELECTRICAL RAILWAYS.

(*✚Denotes a contract awarded.*)

BOSTON, MASS.—The Boston & Eastern R. R. Co. has been granted a certificate of convenience and necessity for a high-speed interurban railway over a private right of way from Boston to Danvers. The construction of a tunnel will be necessary.

REXFORD FLATS, N. Y.—The Crescent-Halfmoon Association has been formed for the purpose of constructing a trolley line from Rexford Flats to Cohoes.

SUFFERN, N. Y.—The Public Service Commission has authorized the Suffern St. Ry. Co. to construct a single-track street surface electric line from Orange Ave. to Lafayette Ave., in this village. This will connect with the North Jersey Rapid Transit Railway State line and complete an interurban road from Paterson, N. J., to Suffern. The estimated cost is $24,000, for which a bond issue has been authorized.

PERTH AMBOY, N. J.—The construction of a railway between Perth Amboy and Dunellen is under consideration. W. P. Deering, Perth Amboy, is interested.

IRWIN, PA.—The Borough Council has granted the Pittsburg, McKeesport & Greensburg Ry. Co. a franchise to construct its proposed line on Fourth Ave., from Main St. to the west boundary line of the town. This will connect the main line with the Trafford City extension. Connection with the lines of the Pittsburg Ry. Co. will be made at Trafford City. J. F. Fritsch, Connellsville, is Ch. Engr.

MASONTOWN, PA.—A charter has been granted to the Masontown & Morgantown St. Ry. Co. to construct a line 4.7 miles long. The incorporators are Byron Trimble, Pittsburg, Pres., and C. W. Scheck, Mt. Oliver; A. E. DuBois, Pittsburg; C. C. McBride, Ingram, and F. W. Craig, Swissvale, are interested. Noted June 29.

PITTSBURG, PA.—Parties interested in the trolley line from Pittsburg to Wheeling are in Burgettstown this week and are making surveys and securing rights of way. The line will come through McDonald, Midway and Bulger. There will be a junction at Burgettstown, where a branch will go by way of Florence to Weirton. Another branch by way of Cross Creek, Avella and Independence will be made. W. E. Hildebrand is Pres. and B. H. Brooks, 13 Park Row, New York, N. Y., is interested.

PHILADELPHIA, PA. — The Philadelphia Rys. Co. has been recently chartered to take over the Southwestern Street Railway, and has planned extensive improvements to its lines. Among these are the establishment of a through service to Prospect Park and Media and the double-tracking of the line westward from the Schuylkill River. Isaac H. Silverman, 605 Land Title Bldg., Philadelphia, is Pres.

PITTSBURG, PA.—The West Penn Railways Co. is planning to build a line from Brownsville to Waynesboro, by way of either Clarksville or Rice's Landing. J. L. Fritsch, Connellsville, Pa., is Ch. Civil Engr.

BEAVER FALLS, PA.—The Beaver Valley & Koppel Street Ry. Co. is seeking a franchise in Beaver Falls, which is part of the proposed line from Beaver Falls through Koppel Wampum, Mahoningtown and New Castle to connect there with the Pittsburg, Butler & Harmony Ry. Co. About 75% of the rights of way have been secured between Beaver Falls and New Castle. C. E. Glenn is Pres., W. A. Goehring is Vice-pres., and H. S. Glenn is Secy-treas.

WASHINGTON, D. C.—A new route from Washington to Chesapeake Beach, Md., will be constructed in the near future by building a 5-mile link of electric road between the District of Columbia line and the proposed terminus of the Washington & Marlboro Electric R. R. The extension will be made between the eastern terminus of the Capitol Traction Co. on Pennsylvania Ave., Washington, to connect with the Chesapeake Beach R. R., between Richey Station and Upper Marlboro. It will be made under the charter of the East Washington Heights Traction Co., in the District of Columbia, and the charter of the Washington and Marlboro Electric Railway Co., in Maryland.

RICHMOND, VA.—The Richmond & Henrico Ry. Co. is considering plans to build several extensions to its line.

FAIRMONT, W. VA.—The Fairmont & Pittsburg Ry. Co. has secured all its right of way between Waynesburg, Pa., and Pittsburg, for a line which will enter Pittsburg over the Wabash lines and make use of the Wabash station at Liberty Ave. and Ferry St. The company expects to have the line complete by the latter part of 1912, at an approximate cost of $8,000,000. This line is to be built from Fairmont, W. Va., to Pittsburg, a route of 80 miles, 40 miles shorter than any other. From Fairmont to Blacksville, Pa., the road is complete and construction between Blacksville and Waynesburg, Pa., is well under way. The line will be standard gage and the greater part double tracked. Cars from Mannington, Morgantown and Fairmont, W. Va., will meet at Blacksville to the same time, and run from there to Pittsburg as a solid electric train. The company will have to construct the entire way from Fairmont to Bridgeville, Pa., but from there it will use the Wabash lines, which are to be electrified. Noted Feb. 23.

MORGANTOWN, W. VA.—The Morgantown Interurban Ry. Co. has been incorporated under the laws of the State of West Virginia for the purpose of building a street car line from Fairmont to Morgantown, Morgantown to Point Marion, Pa., and from Point Marion, to Waynesburg, Pa., an approximate distance of 45 miles. The company is incorporated at $25,000 and the incorporators are Col. Joseph H. McDermott, Harry R. Warfield and Atty. John A. Purinton. See item under Masontown, Pa., June 29.

CLEVELAND, OHIO.—The Cleveland Ry. Co. contemplates laying 22 miles of new track during the summer. J. J. Stanley, Elecric Bldg., is Pres. and Gen. Mgr.

MONMOUTH, ILL.—An interurban line between Monmouth and Alexis is being promoted. The road is to be built according to steam railroad practice. J. C. Long, Monmouth, is negotiating for sufficient capital and rights of way.

EAST ST. LOUIS, ILL.—The Southern Traction Co. will make a new survey for the proposed line from Belleville to Pinckneyville. The new survey will be through St. Clair, Clinton, Washington, Jefferson, Perry, Jackson and Randolph Counties, and it is proposed to have the line completed and in operation when the free bridge is ready for use by the Southern Traction Co. Harper Bros., East St. Louis, are Ch. Engrs.

✚OSKALOOSA, IOWA.—The Iowa Traction Co. has awarded the contract for grading the interurban lines from Oskaloosa to Waterloo to the D. C. KOONS CO., Omaha, Neb. The work will cost $600,000, and will begin August 1.

DALLAS, TEX.—Schuyler B. Marshall, Mesquite, Tex., President of the East Texas Traction Co., announces that preliminary plans for the construction of an interurban electric railway between Dallas and Terrell, Tex., about 30 miles, are well advanced and that the prospects are very favorable for the early consummation of the project.

DALLAS, TEX.—The Stone-Webster Engineering Corporation, which is preparing to construct an interurban electric line between Dallas and Waxahachie, Tex., a distance of about 30 miles, will soon award the contract for construction. The proposed line will ultimately be extended south to Waco, and also to Corsicana, and preliminary steps towards carrying out these plans are now in progress. It is reported that it is the intention of the Stone-Webster interests to build a north and south interurban electric line that will reach from Sherman on the north to Galveston on the south, traversing the most populous portion of the state. The Stone-Webster interests are already constructing an interurban electric railway between Houston and Galveston, 51 miles, which will be an important link in the proposed line through the state. See item under Waxahachie, Tex., June 22.

FORT WORTH, TEX.—The Fort Worth Southern Traction Co. has been organized with a capital stock of $1,500,000 for the purpose of constructing and operating an interurban electric railway between Fort Worth and Cleburne, Tex., a distance of about 32 miles. The survey for the proposed line has been made and the right of way secured and the contract for the construction work will soon be awarded. The incorporators are: C. H. Clifford, W. C. Forbes and W. A. Hanger, all of Fort Worth.

PORT ANGELES, WASH.—A. O. Powell, Rufus R. Wilson, C. J. Farmer, T. T. Aldwell and associates have completed the organization for the financing and construction of a 51-mile electric railway from Port Angeles to Port Ludlow.

SEATTLE, WASH.—W. H. Coughlin, 320 American Bank Bldg., Seattle, advises that franchises, right of way and $90,000 in subsidy bonds have been obtained to build a 7½-mile railway between Seattle, Highland Park and Lake Burien. This will be turned over to anyone who will agree to build and operate the line.

SAN JOSE, CAL.—Five extensions of franchises have been granted to the Penninsular Ry. Co., an allied corporation of the Southern Pacific Co., Los Angeles, to build roads in various parts of Santa Clara County. The franchises cover about twelve miles of road. It was announced that the new franchises are in line with the effort of the Southern Pacific to obtain a network of electric lines along the peninsula from San Francisco to San Jose.

BERKELEY, CAL.—The Oakland Traction Co. has engaged E. C. Prather, Engr., Oakland to make a new survey for the proposed railway from North Berkeley to Grizzly Peak.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

✚SPRINGFIELD, MASS.—The FRED T. LEY CO., INC., of Springfield, Mass., and Waterbury, Conn., has been awarded the contract for a 1-story brick and concrete boiler house, 26 × 72 ft., on Pynchon St., for the Forbes & Wallace Co. Kirkham & Parlett are Archs.

GARDNER, MASS.—The Gardner Electric Light Co. has been granted permission to lay underground conduits on Pearl St., from Elm to Glazier St.

✚BRIDGEPORT, CONN.—The contract for the erection of an addition to the boiler house of the Hartmann Brewing Co., on Hamilton St., has been awarded to the GILLETTE CONSTRUCTION CO., 213 Malley Bldg., New Haven, Conn. The plans were drawn by Leonard Asheim, Arch., Bridgeport. Noted on June 8.

NEW HAVEN, CONN.—Plans are being made by the New York, New Haven & Hartford Railroad Co. to erect a power house and machine repair shops at New Haven. The new power house will supply electricity for the system when the electric car service is extneded from Stamford to New Haven.

✚ALBANY, N. Y.—The contract for the engine, switchboard, etc., for the Central Islip State Hospital, has been awarded by the State Commission in Lunacy to the COMMERCIAL CONSTRUCTION CO., 24 State St., New York., at $6,463. T. E. McGarr is Secy. Comn.

✚ALBANY, N. Y.—We are officially advised that the FOUNDATION CO., 115 Broadway, New York, has been awarded the contract for the foundations for the State Capitol power house here. The work will consist of sinking two caissons by pneumatic method, 18 ft. in diameter, and carried to a depth of about 65 ft. The work is under the supervision of F. B. Ware, State Arch.. and T. Kennard Thompson, Engr.

BINGHAMTON, N. Y. — Plans have been completed for the Boulevard lighting. Estimated total cost of the construction of a subway on Court St., from Exchange St. to the bridge, at $23,439, including 28 main ducts and ten laterals, measuring in length 50,420 ft. J. A. Giles is City Engr.

NEW YORK, N. Y.—Bids will be received by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, Park Ave. and 59th St., Boro. Manhattan, until 11 a. m., July 17, for alterations and additions to the electrc equipment in Public School 13, Pennsylvania Ave., Rosebank, and Public School 20, Vreeland St. and Heberton Ave., Port Richmond, Boro. Richmond; and for repairs to heating and ventilating apparatus at Parental School, Jamaica Road, near North Hempstead Turnpike, Flushing, Boro. Queens.

Bids will be received by the Commissioner of Correction until 11 a. m., July 20, for furnishing and delivering on dock at Harts Island, New York, lead-sheathed, rubber-covered, single-conductor feeder and sub-feeder cables; also duplex, rubber-covered, lead-sheathed, steel-ribbon armored cables.

Bids will be received by the Commission of Correction until 11 a. m., July 20, for furnishing all labor and material required to remove the present tin roof, gutters and leaders on gable and flat roofs over the boiler, dynamo and ice machine rooms of the power plant on Harts Island, New York, and put on a new copper roof, gutters, leaders, etc.

Bids will be received by the Commissioner of Correction until 11 a. m., July 20, for furnishing the necessary skilled labor, superintendence, machinery, blocks, tackle and other appliances to lay, draw into ducts and properly connect up complete an electric feeder system, including covers for manholes, for the lighting and power service, and a feeder and subsidiary systems for the street lighting, including the furnishing and connecting up mechanically and electrically of the street lamppost lanterns, etc., on Harts Island, New York.

✚Bids were received on July 3 by C. B. Snyder, Supt. School Bldgs., for installing electric equipment in School 75, Boro. Brooklyn, to the NEW YORK CONSTRUCTION CO., 1328 Broadway, New York, at $6,120.

✚The contract for installing electric equipment in School 45, Boro. The Bronx, has been awarded to T. FRED JACKSON, INC., 94 John St., New York, at $10,762.

Plans have been filed for the erection of a 1-story brick power house at Ferry Point Road and 177th St. for St. Joseph's Institute. Estimated cost, $25,000. Joseph H. McGuire, 45 East 42d St., New York, is Arch.

NEW YORK, N. Y.—Bids will be received by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 3 p. m., July 24, for repairs to heating and ventilating apparatus in Public Schools 5, 16, 17, 37, 41, 57, 155 and Eastern District High School, Boro. Brooklyn.

BARKER, N. Y.—The Village Board has granted the A. L. Swett Electric Light & Power Co., of Medina, N. Y., a 50-year franchise to construct and operate an electric light and power system in Barker. The board also entered into a contract with the company to light the streets of the village for a period of five years, under the terms of which the company is to supply 25 candle power tungsten lamps at $30 each per year.

✚EAST CREEK, N. Y.—A contract has been awarded by the East Creek Light & Power Co., to BROWN & LOWE, Schenectady, N. Y., for the construction of a four-story power house, 60 × 90 ft., to cost $50,000.

MANLIUS, N. Y.—It is reported that S. Cheney & Son, gray-iron founders, are contemplating equipping their plant for electric motor drive and to abandon the use of steam power before the end of the year.

ASBURY PARK, N. J.—Bids were received as follows on July 5 by the Supervising Architect, Treasury Department, Washington, for the installation of a heating plant at Asbury Park, N. J.: Hoggan & Williamson, Asbury Park, N. J., $4,008; Hoban & Doyle, Philadelphia, $3,500; G. A. Hange, New York, $3,430; John F. Dalton, New York, $3,272; Earl & Cook Co., Newark, N. J., $3,285; Harry P. Murphy & Co., Philadelphia, $3,700; Camden Heating Co., Camden, N. J., $3,468; Newport Contracting & Engineering Co., Newport News, Va., $3,587.

SYKESVILLE, MD.—Bids will be received at the office of the Governor of Maryland, Union Trust Bldg., Baltimore, until July 14, for the installation in the power-house of the Springfield State Hospital, Sykesville, of the following: Boiler plant, engines, generators, switchboard and piping. Henry Adams is Engr., Calvert Bldg., Baltimore.

BALTIMORE, MD.—Preparations are being made by the Consolidated Gas, Electric Light & Power Co., for the construction of a large addition to its plant at the foot of Leadenhall St., to cast $100,000.

ALEXANDRIA, VA.—The Alexandria County Lighting Co., incorporated with $550,000 capital stock, W. J. Rodgers, Pres., 932 C St., Washington, D. C.; G. W. Lucas, Vice-Pres.; W. G. Smith, Secy., all of Washington, D. C., will succeed the Alexandria Electric Co., which controls electric franchise in the city, and is extending system through Alexandria County. The sum of $50,000 will be spent for installation of machinery.

LEXINGTON, VA.—Bids will be received until July 25 for the construction of a concrete dam, 13 ft. high and 200 ft. long, to develop 125 HP., for Moses Bros. C. L. De Mott, of Lynchburg, is Design. Engr. Noted on June 22.

RALEIGH, N. C.—Plans are being considered for the installation of a separate electric light plant for the Central Hospital for Insane and Epileptics, to cost about $7,000. Dr. James McKee is Supt.

✚FORT SCREVEN, GA.—The contract for constructing, wiring, fixtures, etc., for addition to hospital ward has been awarded to the GEORGIA CONSTRUCTION CO., of Newnan, Ga., at $14,557. Bids were opened on June 14.

WASHINGTON, GA.—At an election to be held July 14 the proposition to issue $30,000 in bonds, the proceeds to be used for reconstruction of the municipal electric plant, will be submitted to a vote. Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, N. Y., are Engrs. E. A. Barnett is Mayor.

ALEXANDER CITY, ALA.—The Industries Light & Power Co., of Alexander City, has been organized recently and will construct a dam to generate electricity to supply the town.

GRAND CANE, LA.—The town is considering the installation of an electric light system and a deep-well water system.

✚LOUISVILLE, KY.—The RAYMOND CONCRETE PILE CO., of 90 West St., New York, and Chicago, Ill., has been awarded the contract for placing the concrete piles for the foundations of the new power plant of the Kentucky Electric Co., at Second and River Sts., Louisville. Sargent & Lundy are Engrs. The Merrill-Ruckgaber Co. are the general contractors.

✚AKRON, OHIO.—The Northern Ohio Power Co. has awarded a contract to the CARMICHAEL CONSTRUCTION CO. for building a dam across the Cuyahoga Valley, 100 ft. above the Falls. The dam will be 60 ft. high and 500 ft. long.

TIFFIN, OHIO.—The Ohio Light & Power Co., a new corporation, has taken over the property of the Tiffin Electric Co. and will operate it in the future. A bond issue of $1,500,000 will be issued for improvements to the various plants of the corporation.

CINCINNATI, OHIO.—The Columbia Gas & Electric Co., this city, has purchased a site on Gans Alley for a sub-station. The estimated cost is $150,000. James S. Ernst will be in charge.

KENTON, OHIO.—The Kenton Gas & Electric Co. will be taken over by the Hardin-Wyandotte Lighting Co. It is reported that the company is planning to erect a new plant, at a cost of $60,000, and to supply electricity in Forest, Dunkirk and Upper Sandusky, where the local plants will be dismantled.

CONNERSVILLE, IND.—E. D. Johnson, it is reported, will soon ask for bids for construction and equipment of a hydraulic power plant on Whitewater Valley Canal.

SHIRLEY, IND.—The installation of an electric light and power system in Shirley is reported to be under consideration. Electricity for operating the plant will probably be secured from the transmission lines of the interurban railway company.

✚NEGAUNEE, MICH.—The City Council has awarded the contract for new equipment for the municipal electric light plant to the ALLIS-CHALMERS CO., of Milwaukee, Wis. The improvements will include the installation of a 350-HP. Corliss cross-compound engine, to drive a 200-KW. alternator, including auxiliaries consisting of a barometric condenser, switchboard panel, feed water heater and exciter. The cost is estimated at about $15,000.

MILWAUKEE, WIS.—Bids will be received by the Board of Trustees of the Public Museum, until July 15, for furnishing and installing an engine and generator, a 6-sweeper vacuum-cleaning plant, and laying and resurfacing concrete floors in the new $250,000 addition to the Public Museum, Grand Ave. Eighth and Ninth Sts.

MENASHA, WIS.—The City Council has voted to enter into a contract with the Northern Hydro-Electric Co., of Oshkosh, Wis., for electricity to operate the municipal electric light system.

✚MISHICOT, WIS.—The contract for the construction of an electric light and power plant here has been awarded to the ACKER ELECTRICAL CO., Sheboygan, Wis. The plant will be owned by Ira Beyer, of Mishicot, and will cost about $10,000. The water power oft he Nashotah River will be utilized to generate electricity.

CANBY, MINN.—The city is considering the installation of an electric light plant.

MINNEAPOLIS, MINN.—The Council is considering the installation of a system of 150 incandescent electric lights to be operated by power from the garbage crematory. Estimated cost, $50,000. Henry N. Knott is City Clk.

KANSAS CITY, MO.—The Kansas City Electric Light Co. has secured a permit to erect a sub-station to be located at 40th St. and State Line. The building will be 40 × 132 ft., and cost about $17,000. Louis H. Egan is Gen. Mgr.

ST. LOUIS, MO.—It is reported that the Stone-Webster Engineering Corporation, 147 Milk St., Boston, Mass., is contemplating erectingt ransmission lines from the hydro-electric plant at Keokuk, Ia., to St. Louis. Electricity will be transmitted at 100,000 volts and stepped down to 6,600 volts for distribution.

MONETT, MO.—Bids will be received, it is reported, until July 18 for furnishing f.o.b. cars, Monett, machinery for electric lighting plant and system. Rollins & Westoner, Beals Bldg., Kansas City, Mo., are Engrs.

CLARKSVILLE, ARK.—Plans are being made by the City of Clarksville for the installation of a municipal electric light plant to cost about $20,000. It is proposed to purchase the distributing system of the plant owned by E. T. McConnell, which was destroyed by fire some months ago.

COTTER, ARK.—Preparations are being made by E. B. Griswold, who was recently granted a 30-year franchise by the City Council to operate an electric light system in this city, to install an electric light plant.

FORT COLLINS, COLO.—The City Council has instructed the City Engineer to make surveys and estimates of cost for the construction of a municipal electric light plant.

SILVER CITY, N. MEX.—The installation of a large hydroelectric plant on the Gila River, near here, is contemplated, it is reported, by Col. J. W. Carter, of Silver City, and associates. Engineers are making preliminary surveys, with a view of locating a site for the proposed plant. Transmission lines will be built from the power station to the Mogollon mining district for supplying the energy for operating the machinery of the mines and mills. Other transmission lines will also be constructed to Silver City and a number of towns and industrial centers within a radius of about 100 miles of Red Rock.

BISBEE, ARIZ.—The holdings of the Bisbee Light & Power Co. were recently sold. The purchaser was W. J. Ainsworth, of West Union, Iowa, and the consideration $30,000. The gas plant of the company will be improved and enlarged.

KINGMAN, ARIZ.—J. H. Hays and Robert S. Waters will install a hydroelectric plant on Trout Creek, in the eastern part of Mohave County. The power will be transmitted to mining districts of that section and used to operate the machinery of the mills.

✚WALLA WALLA, WASH.—The contract for the instalation of a new furnace and heating plant in the Baker School has been let by the Building and Grounds Committee of the Board of Education to the G. H. SUTHMERLAND CO., of Walla Walla, at $6,300.

LOS ANGELES, CAL.—The County Board of Supervisors has granted a franchise to the Pacific Light & Power Corporation for a power line to be installed in the foothill district, extending to Pomona, to supply suburban property with electric light and power. E. R. Davis is Ch. Engr., Los Angeles.

VALLEJO, CAL.—Bids were received as follows, on July 8, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing equipment for an auxiliary power plant at the Mare Island Navy Yard: Evans Almirall & Co., 1 Dominick St., New York, $109,987; John W. Danforth Co., 72 Ellicott Sq., Buffalo, $103,570; Robert Dalziel, Jr., 218 First St., San Francisco, Cal., $112,600; Charles C. Moore & Co., 99 First St., San Francisco, $114,100.

LOS ANGELES, CAL.—Bids will be received by the County Supervisors until August 31 for two engine generator sets for the Hall of Records. Hudson & Munsell are Archs.

✚PASADENA, CAL.—The City Council has ordered the construction of ornamental lamp-posts on South Orange Grove Ave., from Colorado St., a distance of 8,000 ft. They will be of bronze, with 24-in. concrete bases, outer globes of alba glass and 110-volt tungsten lamps.

✚The City Council has awarded a contract to the Los Angeles agency of the WESTINGHOUSE MACHINE CO., HUNT, MIRK & CO., for one steam turbine unit for the municipal electric light plant, at $22,855.

✚SAN FRANCISCO, CAL.—Bids were received by the Lighthouse Inspector, 18th District, San Francisco, on June 15, for furnishing a gasoline engine driven air compressor for Farallon Light Station, Cal. The contract has been awarded to FAIRBANKS, MORSE & CO., 158 First St., San Francisco, at $6,506.

EL MODENA, CAL.—The installation of an electric light and power system in El Modena is under consideration.

SACRAMENTO, CAL.—The contract for supplying electricity for all purposes to the State Capitol has been awarded to the Great Western Power Co., by the State Board of Control. Under the terms of the contract the company is to furnish electricity for all purposes at the capitol, capitol grounds and the printing office, including incandescent lamps, arc lamps and motors for printing office and elevators at the rate of 1¾ cts. per KW. hour. The contract is for a period of three years, beginning July 1, 1911.

BRIDGES.

(*✚Denotes a contract awarded.*)

*BANGOR, ME.—Bids will be received at the office of the Mayor of Bangor until noon, July 24, for building the superstructure of a steel highway bridge between the cities of Bangor and Brewer. Length of spans, 217 and 223 ft. Stress sheet and specifications may be seen at the office of Engineering News, New York, or may be obtained on application to the Mayor of Bangor on payment of $5.000. E. E. Greenwood, Skowhegan, Me., is Engr.

TRENTON, N. J.—Press reports state that the Pennsylvania R. R. Co. will build a new steel and concrete bridge on Chestnut Ave. near State St. The bridge will be constructed of steel girders imbedded in solid concrete. The roadway of the bridge will be of concrete, with asphalt surface. New concrete abutments will be constructed and the sides of the bridge will be of steel.

ALTOONA, PA.—Plans for constructing a bridge across the Pennsylvania R. R. tracks at Seventh Ave. have been approved by the railroad, the city and the Altoona & Logan Valley R. R. Co. The structure will be 165 ft. long and 50 ft. wide and will cost approximately $75,000. It will be built of structural steel, reinforced with concrete underneath.

✚MERCER, PA.—We are officially advised that the contract for constructing three steel bridges in Mercer County was awarded on July 3 to the CANTON BRIDGE CO., Canton, Ohio. Noted on June 29.

PITTSBURG, PA.—Bids will be received by the Commissioners of Beaver County, at the office of R. J. Cunningham, County Controller, until noon, July 29, for the erection of a bridge over Sewickley Creek at Allegheny-Beaver County line, on Martin Davis property. The bridge will be a street truss 75-ft. span, carried on concrete abutments and concrete foundations.

*BLAIRSVILLE, PA.—Bids will be received by the Town Council of the Borough of Blairsville until 6 p. m., July 20, for a steel concrete bridge, 130 ft. in length, of the post and girder type, over Sulphur Run. Plans and specifications may be seen at the office of H. R. Wiley, City Clk., Blairsville, or E. J. O'Brien, Engr., Latrobe, Pa. H. R. Wiley is Secy of Council.

NATIONAL SOLDIERS' HOME, VA.—We are officially advised that bids for constructing a bridge over John's Creek were received on July 6, as follows: J. H. Brinson, Hampton, Va., $11,440; Penn Bridge Co., Beaver Falls, Pa., $8,894; R. T. Pierce, Newport News, Va., $17,000; L. Hankins, Richmond, Va., $14,800; Carter Construction Co., Burlington, N. C., $14,449; R. H. Richardson & Son, Hampton, Va., $13,832. John T. Hume is Treas.

DINWIDDIE, VA.—Bids will be received by P. St. J. Wilson, State Highway Comr., Richmond, Va., until noon, July 17, for constructing a steel bridge, 204 ft. long, over Stony Creek, in Dinwiddie County. Plans and specifications are on file with the Clerk of the Circuit Court, Dinwiddie C. H., and with the Childrey Sunday Co., Richmond.

✚RICHMOND, VA.—We are officially advised that the contract for constructing a three-span concrete bridge, 87.4 ft. long, over Staunton River, near Hardy's Ford, was awarded, on July 3 to the ROANOKE BRIDGE CO., Roanoke, Va. Noted on June 29.

✚GRAFTON, W. VA.—We are officially advised that the Grafton Traction Co. has awarded the contract for a bridge across Tygarts Valley River at Grafton, to the FARRIS BRIDGE CO., Pittsburg, Pa. The length of the structure will be 755 ft.; span over tracks, 200 ft.; middle span, 290 ft.; height of piers, 60 ft. The cost is $30,000. J. Clyde Lewis is Engr. for the Traction Co.

MIDDLEBOURNE, W. VA.—Bids will be received by the County Court until 1 p. m., July 14, for constructing a bridge across Middle Creek, near the mouth of Little Buffalo Creek. The structure will have two spans, one 140 ft. long and one 56 ft., with a viaduct approach at one end 50 ft. long. J. W. Duty is Clk. County Court.

✚COLUMBUS, GA.—The Central of Georgia Ry. Co. has awarded the contract for the construction of a concrete culvert over its tracks at Sixth Ave. and Cemetery St. to GARDINER & PEASE, Columbus, at $10,000.

*TAMPA, FLA.—Bids will be received by the Board of Public Works until 2 p. m., Sept. 6, for the construction of a reinforced concrete, or concrete steel bridge, with bascule lift, over the Hillsborough River, at Lafayette St. Plans and specifications to acompany each bidder's proposal, a profile of the river at the bridge site and information can be obtained from [illegible] Engineer of the Board. D. B. McKay is Chm., and Allen Thomas, Clk.

*SHREVEPORT, LA.—Bids will be received by L. H. Baker, Secy.-Treas., until 10 a. m., Aug. 1, for building the substructure for a steel traffic bridge over Red River, at Shreveport, as per plans and specifications on file in the office of the City Engineer, Shreveport, and at the office of Hedrick & Cochrane, 1118 M[illegible]e St., Kansas City, Mo.

CINCINNATI, OHIO.—Bids will be received by the County Commissioners until noon, July 28, for constructing bridges, culverts and approaches on Country Club Road, between Reading Pike and Ohio Ave. in Silverton, in Sycamore and Columbia Townships.

CLEVELAND, OHIO.—Bids will be received by the Board of County Commissioners until 11 a. m., July 26, for constructing a culvert per report No. 2,831. John [illegible] Goldenbogen is Clk.

HAMILTON, OHIO.—L. A. Dillon, County Engr., has prepared plans and specifications for a bridge over the canal at Grand Boulevard. The structure will be from 28 to 36 ft. long, 42 ft. wide, and is estimated to cost about $10,500.

✚INDIANAPOLIS, IND.—The contract for constructing a bridge across Fall Creek in Capitol Ave. has been awarded to the CLEARY-KUERT CO., at $14,323.

NEWCASTLE, IND.—Bids will be received by the Commissioners of Henry Countil, until 10 a. m., July 15, for constructing certain bridges and arches. W. L. Rusk is Audr.

GRAND RAPIDS, MICH.—Daniel B. Luton, Indianapolis, is preparing plans for a concrete bridge at Leonard St., to cost from $100,000 to $125,000. The structure will be 600 ft. long, and 66 ft. wide.

AMBOY, ILL.—Bids will be received at the Town Hall until noon, July 22, for erecting the Full Bridge, 22 ft. span, reinforced-concrete construction.

AURORA, ILL.—Plans and specifications for a bridge at Illinois Ave., to cost $30,000, drawn by H. S. Witherell, Chicago, have been accepted by the City Council.

CAMBRIDGE, ILL.—Bids will be received at the site until 9.30 a. m., July 19, for constructing the Jackson Bridge, 24-ft. span, reinforced-concrete construction.

EARLVILLE, ILL.—Bids will be received by C. A. Frank, City Clk., until noon, July 19, for erecting the Ottawa St. bridge, 50-ft. span girder, reinforced-concrete construction.

WARDEN, ILL.—Bids will be received until 11 a. m., July 18, for constructing a reinforced-concrete bridge in Olive Township, Madison County.

✚MILWAUKEE, WIS.—The Milwaukee Bridge Co. has sublet the contract for doing the piling, sheeting and concrete work on the Oneida St. Bridge to PELLET & McMULLEN, at $23,500.

MARSHALL, MINN.—Bids will be received by the County Comrs. until July 18, for constructing abutment and superstructure for a bridge of 60-ft. span. Ernest S. Shepard is County Audr.

BEATRICE, NEB.—Bids will be received at the Court House until 3 p. m., July 24, for two bridges to be built in Gage County, as follows: the Dalbey Bridge, reinforced-concrete, flat top, 16-ft span, with an 18-ft. roadway; Court St. Bridge, removing wood floor and stringers from steel bridge having a 22-ft. roadway and a length of 262 ft. over all, and furnishing and placing about 556,461 lbs. steel I-beams and channels and 19,400 ft. of lumber, painting and all incidental work. J. C. Benrod, Beatrice, is County Clk.

COLUMBUS, N. DAK.—Bids will be received by John Romine, County Audr., until 9 a. m., July 17, for constructing various bridges.

HOUSTON, TEX.—Bids for the construction of the Main St. viaduct and bridge across the Houston ship channel and White Oak bayou, connecting the north and south sides of Houston, have been received as follows: William P. Carmichael Co., St. Louis, Mo., time to complete, 286 days; whole bridge complete, using concrete railing and concrete piles, $348,000; whole bridge complete, using alternate scheme of reinforced-concrete posts with galvanized iron railings and concrete piling, $346,900; a deduction of $9,600 is to be made if wood piling are used; whole bridge complete, with galvanized iron railing and concrete piles, $304,400; for whole bridge complete, using wood, $296,700. J. C. Mardis Co., Des Moines, Iowa, time to complete, 300 days; for whole bridge in its entirety using concrete railing and concrete piles, $377,500; for whole bridge complete using alternate scheme of reinforced-concrete posts with galvanized iron railing and concrete piling, $374,200; for whole bridge complete, using galvanized iron railing and concrete piles, $340.400; for whole bridge, complete, using galvanized iron railing and wood piles, $334,400. American Construction Co., Houston, time to complete, 360 days; for whole bridge complete, using concrete railing and concrete piles, $443,500; will deduct $5,700 if wood piling are used; for whole bridge complete, using galvanized iron railing and concrete piles, $400,500; for whole bridge complete, using galvanized iron railing and wood piles, $396,000.

SILVER CITY, N. MEX.—The erection of a steel bridge across the Gila River, on the road leading to the Mogollon Mining District, is under consideration.

RENO, NEV.—Bids will be received by W. A. Fogg, Clk. County Comrs., until noon, July 24, for erecting a steel bridge about four miles east of Reno.

✚GLENDALE, CAL.—The Pacific Electric Railway Co. has awarded a contract to CHARLES W. CEARBALEY, Wilcox Bldg., Los Angeles, Cal., to build a single-track pile trestle bridge, 320 ft. long, across the Verdugo Wash on the Glendale-Burbank extension.

VENTURA, CAL. — Bids will be received by the Board of Supervisors of Ventura County, until 11 a. m., July 22, for the construction of two reinforced concrete bridges and approaches. The Collegues bridge will have three 40-ft. concrete spans, and the approaches will be of earth, 400 ft. in length. The Ternez Siding bridge will have one 21-ft. span and earth fills, 570 ft. in length. Mayberry & Parker, Pacific Electrical Bldg., Los Angeles, are Engrs.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

ELLESWORTH, ME.—Bids were received as follows on July 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the postoffice at Ellesworth, Me.: Newport Contracting & Engineering Co., Newport News, Va., $38,762; King Lumber Co., Charlottesville, Va., $44,800.

BOSTON, MASS.—Sub-bids are asked until July 18 by W. F. Kearns Co., of Cambridge, for work on the Peter B. Bingham Hospital on Huntington Ave. Building to be of brick, four stories, to cost $1,000,000. Codman & Despradelles are Archs.

✚The contract for the United States Leather Co. warehouse on Midway St., South Boston, has been awarded to F. C. ALEXANDER, 745 Old South Bldg., Boston. The building to be of brick, six stories, 88 × 125 ft., to cost $80,000. M. D. Safford is Arch.

✚The contract for the concrete bandstand on the Common was awarded July 5 to WM. CRANE, 7 Water St., at $42,794. Other bids were noted in issue of July 6. C. H. Sullivan is Supt. Public Grounds Dept.

HOLYOKE, MASS.—An addition is about to be made to the City Hospital, also the old building is to be enlarged. Addition to be 50 × 125 ft., four stories, of brick.

✚HOLYOKE, MASS.—The contract for the erection of the new Joseph Metcalf School on Northampton St., Elmwood, for the City of Holyoke, has been awarded to JOHN J. O'NEILL, Holyoke, Mass., at his bid of $51,030, which included the iron stairways. The other bids, which did not include the iron stairs, were: Daniel O'Connell's Sons, $51,850; Louis Carreau & Sons, $52,400; Louis La France, $52,950; J. H. Fowles & Son, $53,000; Lynch Bros, $56,546. E. H. FRIEDRICH has been awarded the contract for the plumbing at his bid of $2,950, which includes the shower baths. Bids for installing the heating system were received from P. J. Donnelly, $8,828, and the Holyoke Supply Co., $8,865, but the contract has not yet been awarded. The school is to be of pressed brick, with Ohio sandstone trim, 98 × 144 ft., two stories and basement, and will contain 12 rooms and a large assembly hall. William B. Reid, Holyoke, is the Arch.

Ellsworth & Howes are completing plans for a 3-story store and apartment block, to be erected at Pearl and Allyn Sts., for Frank H. Dibble. The building will be of pressed brick, with sandstone trim.

From plans of William B. Reid, estimates are being received for the erection of a 5-story brick apartment block, 30 × 57 ft., at 95 High St., for Mrs. M. L. Brindamour. The building will be trimmed with limestone and brownstone.

✚NEW BEDFORD, MASS.—The Fairfont Corporation factory contract was awarded to B. F. SMITH CONSTRUCTION CO., Pawtucket, R. I., to be of brick, 146 × 40 ft., to cost $40,000.

NORTHAMPTON, MASS.—A theatre is about to be built, to cost $40,000, to be of brick, 65 × 80 ft. B. H. Seabury, Springfield, is Arch.

✚PITTSFIELD, MASS.—The contract for the General Electric Co.'s warehouse and office on Woodlawn St., has been awarded to A. BENTLEY & SONS, Toledo, Ohio; to be 200 × 400 ft., to cost $300,000. M. M. Thrarie is Engr.

✚SPRINGFIELD, MASS.—The contract for the Y. M. C. A. gymnasium, West Springfield, has been awarded to MICHAEL MALONEY; to be 40 × 100 ft., gray pressed brick. F. E. Elvin is Arch.

✚Contracts for the erection of a 4-story brick block, 35 × 50 ft., at 213 North Main St., for Louis A. Ducharme, have been awarded to JOHN J. PREW, Holyoke, Mass., for mason work; the NORCROSS BROS. CO., Worcester, Mass., for cut stone; the RICE-VALENTINE CO. and the ELY LUMBER CO. for the excavating and lumber.

WEST SPRINGFIELD (Springfield P. O.), MASS.—Plans are being figured for a new gymnasium building for the Mittineague Y. M. C. A. The building will be 40 × 100 ft., of pressed brick, with terra cotta or limestone trim, one story high and basement. F. F. Elvin, Springfield, is the Arch., and W. H. Sanborn is Chn. of Bldg. Com.

CHICOPEE, MASS.—Plans have been completed by George H. Fugere, Arch., for the business block to be erected on Center St., for the French Union Society. The building will be of brick, 50 × 100 ft., three stories high.

✚CHICOPEE, MASS.—The contract for the new factory of the Dwight Mfg Co. has been awarded to CASPER RANGER. It will be 400 × 115 ft., of brick, six stories, to cost $100,000. Chas. T. Main, Boston, is the Engr.

✚CORNWALL, CONN.—The JONES CONSTRUCTION CO., 1 Union Sq., New York City, have been awarded the contract for a $50,000 rustic stone residence here for J. E. Calhoun, Ludlow & Peabody, New York City, are the Archs.

✚HARTFORD, CONN.—The WELLS BROS. CO., 396 Fifth Ave., New York, have been awarded the general contract for the building to be erected at Main and Asylum Sts., by the Hartford National Bank. The plans were prepared by Donn Barber, Arch., of New York City, and provide for a building 57 × 100 ft., ten stories high, with granite and limestone base and tapestry brick above. Noted June 22.

HARTFORD, CONN.—It is reported that John Potter and Harry Bond are to incorporate a company and erect a 7-story hotel building on Asylum St.

✚HARTFORD, CONN.—Contrasts for the erection of a 5-story brick apartment block at Park and Zion Sts., for Jerry De Vito, have been awarded as follows: General contract, DOMINICK TRAMONTE; artificial stone, PRIMO PAUFILI. Plans for the building were drawn by R. A. D'Arino, New Haven, Conn., and provide for a building 47 × 109 ft., with pressed brick front. Noted March 30.

NEW HAVEN, CONN.—Plans have been completed and estimates are being received by L. W. Robinson, 856 Chapel St., New Haven, for the addition to the building of the First National Bank on Church St. The building will be of brick and steel, 80 x 100 ft., and eight stories high, and will be arranged for stores and offices.

✚NEW HAVEN, CONN.—The DAVID H. CLARK CO., 166-178 Brewery St., New Haven, have been awarded the contract to build a store house on Minor St. for the Stoddard-Gilbert Co. The building will be of brick and steel, 5 stories high, 95 × 144 ft. A freight elevator will be required. Palmer & Townsend, New Haven, are the Archs.

✚SOUTH MANCHESTER, CONN.—W. R. Tinker, M.D., has awarded the contract for the business block he is to build at Main and Birch Sts. to the CHARLES B. MAGUIRE CO., Providence, R. I.

SOUTH MANCHESTER, CONN.—Estimates are being received for the erection of a 3-story brick block, 80 × 90 ft., at Main and Birch Sts., for Dr. W. R. Tinker. The building will be arranged for stores, offices and two society halls. Isaac A. Allen, Jr., Hartford, Conn., the Arch.

WALLINGFORD, CONN.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch. of the Treasury, Washington, D. C., for a U. S. post-office at Wallingford, Conn. No date has as yet been set for the opening of bids.

WINSTED, CONN.—Plans are being completed by E. E. Benedict, Arch., 51 Leavenworth St., Waterbury, Conn., for a building to be erected here for the Winsted Lodge of Odd Fellows. The structure will be of brick, 42 × 112 ft., three stories high and steam heated.

✚MERIDEN, CONN. — The H. WALES LINES CO., of this city, has been awarded the contract for the erection of a 2-story brick livery and storage building, 70 × 162 ft., on Pratt St., for J. J. Ferry & Son.

TERRYVILLE, CONN.—Oscar R. Haase is having plans prepared for a 4-story block to be erected on Main St. on the site of the one recently destroyed by fire. The first floor will contain four stores and the rest of the building will be arranged for hotel purposes.

NEWTOWN, L. I., N. Y.—Bids are being received by the Brooklyn Union Gas Co., 180 Remsen St., Brooklyn, for the construction of a 1-story factory on the corner of Whitlock Ave. and Grieffenberg St., Newtown. The cost is about $40,000.

NEW YORK, N. Y.—Plans are being prepared by J. G. Glover, 166 State St., Brooklyn, for the construction of a brick and concrete warehouse at 53 Flatbush Ave. L. L. Firuski is owner. The cost is about $70,000.

Plans have been prepared by C. B. Meyers, 1 Union Sq., for three 6-story tenement buildings, to be erected by the Ridge Holding Co., 80 Ridge St. The cost is about $140,000.

A store building will be erected at Washington Ave. and 168th St. by Philip Wattenburg, 1203 Franklin Ave.

Plans are being prepared by Goldberg & Goldberg, 704 Jackson Ave., for the construction of three 5-story tenements, at a cost of about $165,000.

Plans have been completed by D. E. Ward and J. Carpenter, 1 Madison Ave., for the construction of a 12-story apartment house at 960 Park Ave., at a cost of $700,000. The Fullerton Weaver Realty Co., 106 East 82d St., is the owner.

Plans have been prepared by Neville & Bagge, 217 West 125th St., for the construction of a 10-story apartment building for the McMorrow Engineering & Construction Co., 3785 Broadway. The cost is about $500,000.

A 12-story loft building will be erected by the Harvard Realty Construction Co., 128 Broadway, at 22-24 West 38th St.

Plans have been prepared by Schwartz & Gross, 347 Fifth Ave., for the construction of a 12-story apartment house at Park Ave. and 83d St. Bing & Bing, 505 Fifth Ave., are the owners.

Plans have been prepared by George F. Pelham, 507 Fifth Ave., for the construction of a 6-story tenement on Morningside Ave., between 119th and 120th St. The West Side Construction Co., 321 West 92d St. The cost is about $200,000.

Plans have been prepared by M. L. Del Gaudio, 401 East Tremont Ave., for the construction of a 6-story tenement at Mott and Hester Sts. Guiseppi Moleo, 131 Mulberry St., owner. The cost is $60,000.

NEW YORK, N. Y.—Bids will be received by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 3 p. m., July 24, for the general construction, etc., of additions to and alterations in Public School 132, on the easterly side of Wadsworth Ave., between West 182d and 183d Sts., Boro. Manhattan.

POTSDAM, N. Y.—The State Architect is working on plans for the rebuilding of the old portion of the State Normal School here, for which the Legislature appropriated $225,000.

PEEKSKILL, N. Y.—Plans and specifications are being prepared in the office of James Knox Taylor, Supervising Arch. of the Treasury, Washington, D. C., for the construction of a post-office at Peekskill, N. Y. No date has been set for the opening of bids.

YONKERS, N. Y.—The Building Inspector has granted permits to the American Real Estate Co. for the erection of five houses on Park Hill. The F. T. Richter Co., 111 Manhattan St., New York, has applied for permits to erect six dwellings in Lincoln Park.

ROCHESTER, N. Y.—Plans are being prepared by Crandall & Stobell, Rochester, for the construction of a 7-story addition to an apartment building at St. Paul and Division Sts. E. W. Edwards & Son are the owners. The estimated cost is $200,000.

✚WEST POINT, N. Y.—A correction.—The contract for the construction of the East academic building was awarded to JAMES A. STEWART & CO., 30 Church St., New York, N. Y., at $396,631, including commission, and not to George A. Fuller Co., as stated in the issue of July 6.

VINELAND, N. J.—Plans have been prepared by George Poole, Trenton, N. J., for the construction of a brick and limestone home for the State of New Jersey Home for Feeble Minded Women, Trenton, N. J. The cost is about $60,000.

CARNEGIE, PA.—Bids will be received by H. S. Strous, Secy., Elks Hall Association, until July 22, for the construction of a 2-story brick lodge building.

CONNELLSVILLE, PA.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch., Treasury Dept., for the construction of a U. S. post-office at Connellsvile, Pa. Bids were recently received for this work, but were subsequently rejected. No date has been set for the new opening.

HAZELTON, PA.—Plans are being prepared by H. E. De Hoff, 48 South 61st St., for the construction of a city hall. The cost is about $100,000.

PHILADELPHIA, PA.—Peuckert & Wunder have finished plans and specifications for a 5-story brick and stone warehouse, 50 × 101 ft., to be erected at 107-109 De Lancey St., for Stohrer's Keystone Pickle Works. The structure is to be built of slow-burning mill construction with fire tower, electric power elevator, modern electric lighting, etc.

The Select Council passed the ordinance setting aside the plot of ground on the Parkway for the location of the new Central Manual Training High School, which the Board of Education proposes to construct and toward the building of which the sum of $200,000 has already been set aside. The plot granted for this purpose in the ordinance is at the intersection of 22d St. and the Parkway, and is bounded on the north by Hamilton St. and the Pennsylvania Ave. subway, on the east by 21st St., on the south by Callowhill St., on the southwest by the Parkway and on the west by 22d St.

Plans and specifications have been prepared by Bunting & Shirgley, 603 Chestnut St., for the construction of a building for Atkinson Publishing Co.

Samuel Stern, Commonwealth Bldg., will erect a brick and stone apartment house.

✚BALTIMORE, MD.—John T. Donohue, 1808 Thames St., has plans by and awarded contract to MASON R. STONE, 2238 East Hoffman St., to erect 84 dwellings on Rollingson St., between Pratt and Gough Sts.; cost, $84,000.

✚BALTIMORE, MD.—The First Church of Christ (Scientist) has awarded the contract to THOMAS P. JOHNS, 405 McCulloh St., for erection of edifice on University Parkway, near Wymans Park. Plans by Charles E. Cassell & Son, Law Bldg.

*RICHMOND, VA.—Bids will be received by the Hon. J. Taylor Ellyson, Pres. Confederate Memorial Association, 924 Mutual Bldg., Richmond, until noon, Aug. 7, for the construction complete (except heating and ventilating apparatus, electric conduits and wiring, gas piping and lighting fixtures, for a building to be known as the "Confederate Memorial Institute," in accordance with drawings and specifications of Bissell & Sinkler, Archs., 805 Bailey Bldg., Philadelphia, Pa. Copies of the drawings and specifications and forms of proposals may be obtained from the architects on or after July 15. Each application must be accompanied by a certified check for $500, payable to the order of the Confederate Memorial Association. The copies of the drawings and specifications must be returned to the architects in good condition with the proposals whereupon the above check will be returned; but upon failure of any bidder to return in good condition the drawings and specifications the sum of $25 will be forfeited and deducted from the above check. Copies of the drawings and specifications may be seen also at the office of the Confederate Memorial Association, 924 Mutual Bdg., Richmond.

WASHINGTON, D. C.—Bids were received as follows on July 5, by the Commissioners of the District of Columbia for alterations and additions to the Armstrong Manual Training School: Melton Construction Co., $74,800; Hoge & Luebkert, $74,895; W. E. Mooney, $83,975; all of Washington, D. C.

✚WASHINGTON, D. C.—The contract for erecting the proposed office building for John F. and Robert C. Wilkins in H St. Northwest, adjoining the Cosmos Club, has been awarded to WELLS BROS. & CO., 366 Fifth Ave., New York, N. Y., to be built on the site of the old Riggs House. The H St. building will cost about $180,000, and will be built on plans made by J. H. de Sibour, Arch. The work of razing the two residences on the site to be occupied by the Wilkins building was begun yesterday. It will require nine months in which to erect the structure.

WASHINGTON, N. C.—Bids were received as follows on July 5, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Washington, N. C.: (a) limestone; (b) sandstone: Ambrose B. Stannard, New York, (a) $109,000, (b) $115,000; John G. Unkefer, Minerva, Ohio, $99,585; King Lumber Co., Charlottesville, Va., (a) $118,000, (b) $124,000; Westchester Engineering Co., New York, (a) $106,592, (b) $110,592; Edward Henry, Catlettsburg Ky., (a) $117,500; Joseph Seay & Co., Goshen, Va., (a) $108,400, (b) $110,500; Holladay & Crouse, Greensboro, N. C., (a) $110,541, (b) $112,541; Newport Contracting & Engineering Co., Newport News, Va., (a) $100,935, (b) $114,000; George Becking, Chattanooga, Tenn., (a) $112,343; Conners Bros. Co., Lowell, Mass., (a) $125,503.

PINOPOLIS, S. C.—The Building Committee of the Pinopolis Academy will receive bids until July 15 for constructing a school.

EUFALA, ALA.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post-office at Eufala, Ala. No date has been set for the opening of bids.

ATHENS, OHIO.—Bids will be received by W. H. Justice, Clk. of the Bd. of Educ., until July 21, for constructing an addition to the Beach City school.

HAMILTON, OHIO.—Bids will be received by H. C. Chase, Gen. Secy. of the Y. M. C. A., until July 20, for the proposed building here. The probable cost will be about $135,000.

OAK HARBOR, OHIO.—Bids will be received until July 13 by the Building Committee of the Evangelical Lutheran Congregation for erecting a school. Bernhard Becker, 419 Gardner Bldg., Toledo, prepared plans.

WILBERFORCE, OHIO.—Bids will be received by the Board of Trustees of the Wilberforce University, until August 1, for constructing a north pavillion at the girls' dormitory.

COLUMBUS, IND.—The City Council is preparing to ask for bids for the erection and equipment of a city hospital building.

NEWCASTLE, IND. — Mayor George M. Barnard and Benjamin Bristo have ordered plans for the construction of a larger and modern hospital building.

OWENSVILLE, IND.—The Trustees of Cumberland Presbyterian Church will soon ask for bids for the erection of a church.

PRINCETON, IND. — Postmaster Tincheor is asking for bids, under direction from the government architect at Washington, for the construction of a new Federal building here. Estimated cost, $60,000. Bids will be opened August 3.

WASHINGTON, IND. — The Baltimore & Southwestern R. R. is about ready to let a contract to build a new freight depot on the site of the building recently destroyed by fire. The new building will be very large and of brick.

MONROE, MICH.—Plans and specifications are being prepared in the office of James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the U. S. post-office at Monroe, Mich. No date has been set for the opening of bids.

CHICAGO, ILL. — We are officially advised that plans are being prepared for a bridge at Washington St., to cost $300,000.

MILWAUKEE, WIS.—An ordinance providing for a bond issue of $470,000 school bonds is reported to have been passed by the Council.

MILWAUKEE, WIS.—Charles W. Somers, Clevland, Ohio, has leased the Plankinton House block, Grand Ave., West Water and Second Sts., 420 × 200 ft., for 99 years, and proposes to replace the present building with three or more structures, to include a 750-room hotel of twelve stories, office building of fifteen stories, to include theater with seating capacity of 2,000, and one or two commercial buildings of five stories each. The lease with the Plankinton Estate, Jeremiah, Quin, Mgr., calls for an expenditure of $1,000,000 before the end of three years from July 1, 1911. G. A. Harvey, Cleveland, is representative of Mr. Somers.

FT. ATKINSON, WIS.—Bids will be received by Van Ryn & De Gelleke, 725 Caswell Bldg., Milwaukee, until July 14, for constructing a 2-story school, to cost about $60,000.

CEDAR RAPIDS, IOWA.—Plans and specifications will be completed in the latter part of July for the erection of a church building for St. Paul's Methodist Episcopal Congregation. The cost is about $100,000. Lownsbery, Simmons & Co., P. O. Box No. 312, Cedar Rapids, Iowa, are on the Bldg. Com.

KINGSLEY, IOWA.—Bids will be received by J. H. Beardsley, Secy. Independent School District, until Aug. 1, for constructing a school. Plans were prepared by Wilfred W. Beach, Sioux City, Iowa.

MASON CITY, IOWA. — C. T. Benson, County Supt., will receive bids until July 26 for constructing two schools in Districts two and three.

MARION, IOWA.—Bids will be received by H. A. Stearns, Secy. Bd. of Educ., Independent School Dist. of Marion, until July 17 for constructing a brick school.

EVELETH, MINN.—At a meeting of the School Board, Harry S. Sherman, Clk., was instructed to advertise for bids for a $60,000 10-room, 2-story brick school house, to replace the Fayal school that was burned; also to advertise the bonds. The plans of Arch. Bray, of Duluth, were accepted.

✚OMAHA, NEB.—It is reported that Dr. A. P. Condon has bought a site for a private surgical hospital at the southeast corner of Park and Dewey Aves. It is to be three stories high, accommodate forty patients, and cost about $50,000. DR. F. W. SLABOUGH has taken the contract to build it, and Henry A. Raapke is Arch. The lot is 100 × 145 ft.

IROQUOIS, S. DAK.—The Board of Education will receive bids until July 20 for constructing a brick school in Independent School District No. 3.

PIERRE, S. DAK.—The Commissioner of Indian Affairs, Washington, D. C., will receive bids until July 25 for constructing a brick dormitory at the Pierre Indian school.

ALICE, TEX.—The Board of Trustees of the Alice Independent School District will receive bids until July 15 for constructing an addition to the school here.

EL PASO, TEX.—The Scottish Rite Benevolent Association of El Paso has been incorporated for the purpose of building a Scottish Rite temple in this city, the plans for which have already been made and the ground purchased. According to the plans, the Scottish Rite temple will cost about $120,000. It will be erected between Santa Fe and Missouri Sts., at their intersection with Upson Ave., and the building will front on Santa Fe St.

LOVELAND, COLO.—A hotel will be erected here by Emery Freeman, Denver, it is reported.

LOS ANGELES, CAL.—The erection of a hospital is contemplated by the Southern Pacific R. R. The cost is about $100,000.

SACRAMENTO, CAL.—An armory will be erected here at a cost of $100,000. The building will be 160 × 200 ft. and of concrete construction. Address the State architect.

ROCK ISLAND, QUE.—Bids will be received until July 17 by R. C. Desrochers, Secy. Pub Works Dept., Ottawa, for the construction of a public building. Specifications, etc., on application to H. N. Lymburner, Supt. Dominion Bldgs., Montreal, or at postoffice here.

WATER SUPPLY—IRRIGATION.

(✚*Denotes a contract awarded.*)

✚FORT ETHAN ALLEN, VT.—Bids were received on June 21 by Capt. R. J. Fleming, Q. M., U. S. A., Fort Ethan Allen, for constructing an addition to the pump-house, installing electrically operated pumping machinery, building concrete reservoirs and remodeling electric light system at Fort Ethan Allen. We are officially advised that the contract has been awarded to L. B. JACOBS, of Newark, Del., at $18,396.

BOSTON, MASS.—Bids will be received until July 14 by the city for laying 2,500 ft. of 8 and 12-in. water pipe in various streets and for sewerage works in Harvard St., Dorchester District. L. K. Rourke is Comr. Pub. Wrks.

BOSTON, MASS.—The City Council has passed an order providing for the expenditure of $150,000 for the extension of the high-pressure water system. Louis K. Rourke is Comr. Pub. Wks.

✚BOSTON, MASS.—Bids were received as follows on July 7 by the Metropolitan Water and Sewerage Board for laying 20-in. water pipe, Hyde Park, contract 343: J. L. BRYNE, 23 Wales St., Dorchester, $8,169 (awarded contract); Jose Morrell, 193 Fisher St., North Attleboro, Mass., $8,446; Michael Russo & Son, 240 North St., Boston, $9,120; M. DeSisto & Co., 13 Sharp St., Boston, $9,645; Antonio Cefalo, 220 Devonshire St., Boston, $9,965; John J. Falvey, 15 Rush St., Somerville, $11,795; Andrew M. Cusack, 319 Washington St., Boston, $11,876.

CAMBRIDGE, MASS.—It is proposed to raise the dam at Stony Brook to increase the supply of water, which is becoming inadequate for the needs of the city. L. W. Hastings is City Engr.

MOUNT MORRIS, N. Y.—Witmer & Brown, Consult. Engrs., Buffalo, N. Y., have been engaged engineers for the proposed water works. Estimated cost, about $15,000.

MANHASSET (L. I), N. Y.—We are officially advised that Johnson & Fuller, Consult. Engrs., and Sanitary Experts, 150 Nassau St., New York, have been engaged to prepare plans and report and superintend the construction of a system of water-works consisting of driven wells, brick pumping station with fireproof roof, gas producer power plant operating triplex pumps, and about 23 miles of 12 to 6-in. water mains for the Manhasset-Lakeville Water District, Nassau County.

PEEKSKILL, N. Y.—The taxpayers have voted to appropriate $95,000 for a storage reservoir or reservoirs.

YONKERS, N. Y.—The Board of Contract and Supply, James V. Mahony, Secy., will receive bids until July 17 for driving a number of tubular wells to augment the city's water supply. The plans and specifications for the work are on file in Board's office and with Hazen & Whipple, 103 Park Ave., New York.

The Board of Contract and Supply has awarded to THOMAS J. McCORMACK, at $6,100, the contract for two boilers at the low-service pumping station oft he water-works. The contract for 513 lengths of 30-in. bell and spigot pipe and 32 tons of special castings has been awarded to the STANDARD CAST-IRON PIPE CO., of Bristol, Pa., at $21.35 a length for pipe, and $47.50 a ton for special castings. Contract for five 24-in. spur-gear gate-valves has been awarded to the RENSSELAER VALVE CO., of Troy, N. Y., at $148.80 each.

NEW YORK, N. Y.—Bids were received on June 28 by H. S. Thompson, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying water mains and appurtenances in Eastern Boulevard, Pelham Bridge Road, City Island Road and Fordham St., Boro. The Bronx. The lowest bid was submitted by L. D. Gregory, of City Island, at $36,599. Other bidders were: Walton Construction Co., $41,528; Wilton Construction Co., $41,134; Nelson & Dowling, $42,717; Henry E. Fox, $39,745; Daly Bros. Co., $41,953; Rodgers & Hagerty, $40,611; F. N. Lewis, $41,318; F. V. Smith & Son, Inc., $46,410. Bids were also received as follows for furnishing, delivering and laying water mains and appurtenances in Northern Post, Seaman, St. Nicholas and Vermilye Aves.; in Cooper, Hawthorne and other streets. The lowest bid was submitted by L. D. Gregory, at $44,016, including valves, pipe, hydrants, etc. Other bidders were James McAvoy, $52,712; Wilton Construction Co., $56,997; Beaver Engineering & Construction Co., $46,902; Henry E. Fox, $61,047; Franklin Construction Co., $65,529; Walton Construction Co., $45,460; Rodgers & Hagerty, $57,162; Goodman Construction Co., $52,623; Daly Bros. Co., $62,846.

*SUFFERN, N. Y.—Bids will be received by the Board of Water Commissioners until 8 p. m., July 29, for the installation of a water sterilization plant and a mechanical pressure filter. Plans and specifications, etc., can be obtained at the office of Alexander Potter, Consult. Engr., 114 Liberty St., New York, on depositing $1. C. H. McPhillips is Clk.

WHITEHALL, N. Y.—William B. Landreth, Consult. Engr., Schnectady, N. Y., has been engaged by the Board of Village Trustees to prepare surveys and estimates of costs of a new water supply for the village. Capacity, 1,000,000 gallons.

BRIDGETON, N. J.—Bids were received on June 27 by the city for the construction, complete, of a pumping station and water filtration works, with machinery, pumps, filters, etc., from plans of Clyde Potts, 30 Church St., New York. The lowest bid submitted was that of Harry H. Hankins & Bro., of Bridgeton, at about $70,000.

*RED BANK, N. J.—Bids are asked by the Borough Council until 5 p. m., July 24, for a compressor, condenser and condenser pump and receiver, set up and connected and ready for operation, in the pumping station of the water-works in Red Bank. Plans and specifications may be obtained from A. C. Harrison, Bor. Clk., to whom bids must be delivered.

GLEN ROCK, PA.—Bids will be received by the Borough Clerk until July 22 for drilling a well, furnishing a deep well pump, gasoline engine, relining present reservoir, etc.

✚FALLS CREEK, PA.—Bids were received by the Town Council on July 5 for the construction of an earth and concrete water dam, the laying of an 8-in. pipe line, erection of a concrete or brick pump station, and the construction of filter beds and clear water wells. E. W. Hess and A. L. Bouton are Engrs., Du Bois, Pa. We are officially advised that the contract has been awarded to MINNIS BROS., at $9,500. Other bidders were. Hatten & Co., $13,388; Cocella & Delaney, $13,561; Pitt Construction Co., $23,600.

✚*BALTIMORE, MD.—Bids were received on June 28 by the city for furnishing, delivering and erecting complete one 30,000,000-gal. vertical, triple-expansion pumping engine, two batteries of two boilers each, the necessary piping between engines and boilers, the economizers for heating the feed water, for the Mount Royal pumping station. The contract was awarded on July 5 to the BETHLEHEM STEEL CO., at $114,000. The company also submitted bids of $109,500 and $112,500. Other bidders were: Holly Mfg. Co., $127,600 and $122,820. Camden Iron Works, $131,500, $128,000, $136,000 and $131,000; William Tod Co., $137,885; Hooven, Owens, Rentschler Co., $139,293, $138,558, $136,912 and $136,162. Allis-Chalmers Co., Milwaukee, Wis., $156,920. Alfred M. Quick is Water Engr.

LAWRENCEVILLE, VA.—The city is considering an issue of $50,000 of bonds for the construction of water-works, a sewer system and electric light plant. D. S. Hicks, Jr., is Mayor.

✚RED SPRINGS, N. C.—The Board of Public Works received bids on June 27 for constructing water-works, including fireproof building, return tubular boilers, steam pumps, clear water basin and about three miles of 8-in. c.-i. water pipe laying, with hydrants and valves. Contracts have been awarded as follows: To the ROBERTSON CONSTRUCTION CO., of Charlotte, N. C., for construction; c.-i. pipe to GENERAL FIRE EXTINGUISHER CO., Charlotte; tower and tank to R. D. COLE MFG. CO., Newnan, Ga.; hydrants and valves, COLUMBIAN IRON WORKS, Chattanooga, Tenn.; boilers, JAMES S. SCOFIELD SONS CO., Macon, Ga.; pumps, BUFFALO STEAM PUMP CO., Buffalo, N. Y.; terra-cotta pipe, POMONA TERRA-COTTA CO., Pomona, N. C. Total cost, $40,000. Gilbert C. White is Engr., Durham, N. C. Noted on April 6 and June 1.

THOMASTON, GA.—Bids will be received by the Mayor and City Council until 2 p. m., Aug. 1, for furnishing material, machinery and labor to construct water-works system. Plans, etc., are at the office of R. E. Rushin, City Clk., and J. B. McCrary Co., Engr. Empire Bldg., Atlanta, Ga. Noted on May 18.

BILOXI, MISS.—The city has voted $70,000 of bonds for the improvement and extension of the water-works system. E. Glennan is Mayor. Noted on April 20 and June 1.

*FRANKFORT, KY.—Bids for laying a line of water main from Stiltz Lane and Workhouse Road to Lakeland, were received by the Kentucky State Board of Control for Charitable Institutions, at the office of the Louisville Water Co., 435 Third St., Louisville, on June 27. The work consists of furnishing and laying 40,000 ft. of 8-in. c.-i. bell spigot pipe, or as an alternative: 7,300 ft. of 16-in., 21,680 ft. of 12-in. and 10,960 ft. of 8-in. The bids follow: John D. Kuhn, Greensburg, Pa., $45,580 and $63,256 (alternative). Other bidders were: Frank Shefold, Louisville, $56,120 and $79,147; Henry Bickel Co., Louisville, $49,420 and $72,157; Guild Co., Chattanooga, Tenn., $49,840 and $71,177; L. W. Hancock Co., Louisville, Ky., $39,736 and $70,126; M. J. McClusky Co., Louisville, $45,384 and $69,473; L. R. Figg Co., Louisville, $44,838 and $66,062; Central Construction Co., Lexington, $42,600 and $64,220. Engineer's estimate, $4,480 and $63,202.

ANDOVER, OHIO.—Bids will be received until noon, July 14, by the Board of Public Affairs, for furnishing and erecting a complete combined pumping unit of a Triplex pumping engine direct connected and driven through a friction clutch by oil or gasoline or natural gas engine of a strength to pump 250 gallons of water per min. against a domestic head, including suction lift, of 150 ft. L. E. Chapin, Pittsburg, Pa., is Engr.

OAK HARBOR, OHIO.—Bids will be received until July 24 for the construction of water-works. Plans have been prepared by George Champe, The Nasby, Toledo, Ohio. Estimated cost, about $20,000. L. L. Cartensen is Clk.

SOUTH BEND, IND.—The Indiana & Michigan Electric Co. has ordered plans for the construction of a 46-in. intake pipe from St. Joseph River to supply water to the steam plant. The company will also let contracts for a large amount of underground conduit work. F. A. Bryan is Gen. Mgr.

ANN ARBOR, MICH.—Smith, Hinchman & Grylls, Archs. and Engrs., 710 Washington Arcade Bldg., Detroit, Mich., have been engaged to prepare plans for the construction of a large water-works system, including boilers, etc., for the University of Michigan.

HERRIN, ILL.—Bids will be received until July 26 by the city for the construction of a reservoir, tower and tank. H. O. Hallen is Design. Engr. R. L. Adams is City Engr.

✚HOMEWOOD, ILL.—We are officially advised that bids were received as follows on July 1 by the Board of Local Improvements, for finishing and laying 6, 8 and 10-in. c.-i. pipe and necessary valves and hydrants: Pranger & Fletcher, $22,478; Brooks & Son, $23,181; LONYON & CLIFFORD, $21,812 (awarded contract); Malachi Murphy, $23,295; John Tiritilli, $21,500; T. H. Iglehart, $21,868. R. B. Harwood is Secy. Bd.

WESTFIELD, ILL.—We are officially advised that bids will soon be asked for the construction of water-works and a sanitary sewerage system here. W. R. Paige is Engr., Terre Haute, Ind. Noted on April 13.

BERWYN, ILL.—Bids will be received by the Board of Local Improvements until 8 p. m., July 18, for constructing c.-i. water supply pipes in Hiawatha Ave. and other streets. Estimated cost, $6,797. Plans, etc., can be examined at the office of the City Clerk, or A. R. Wolfe, Atty., 903 Strauss Bldg., Chicago, Ill. Walter A. Aikman is Secy.

CHERRY, ILL.—Bids will be received by Thomas Hewitt, Village Clk., until Aug. 1, for the construction of an elevated steel tank, water mains and hydrants. Plans, etc., are at the office of the Village Clk.

MONTICELLO, WIS.—Bids were received on June 28 by E. W. Van Norman, Villlage Clk., for erecting a reinforced-concrete standpipe, 15 ft. in diameter by 50 ft. in height, from plans of W. G. Kirchoffer, Madison. No contract was let and work will be done by day labor.

DELAVAN, WIS.—Bids will be received by the Committee on Streets, Alleys and Public Works, at office of Ray Bowers, City Clk., until 11.30 a. m., July 14, for laying about 1,850 ft. of water mains.

✚MENASHA, WIS.—The contract has been awarded by the city to G. A. LOESCHER for laying 7,000 ft. of water mains.

✚GILMORE CITY, IOWA.—Bids were received as follows on July 6 by the city for furnishing all labor and material necessary for the construction of a water-works system. We are officially advised that the contract has been awarded to the C. W. ROLAND CO. at $13,595. Other bidders were: Des Moines Bridge & Iron Co., Des Moines, Iowa, $13,945; Cook Construction Co., $14,500; W. D. Lowell, $14,640.

HOLSTEIN, IOWA.—Lewis & Leeder, Consult. Engrs., Sioux City, Iowa, have prepared plans for the construction of a reinforced-concrete reservoir with a capacity of 200,000 gallons.

✚FAIRMONT, MINN.—The contract for constructing water mains, has been awarded by the city to the J. W. TURNER IMPROVEMENT CO., of Des Moines, Iowa, at $5,850.

EASTON, MINN.—Bids will be received until 8 p. m., July 17, by William Scheid, Village Recdr., for improvements to the water-works system.

MADISON LAKE, MINN.—Bids will be received by F. B. Knoff, Village Clk., until 7 p. m., July 17, for a deep-well pump with gasoline engine. John Wilson is Engr., Duluth, Minn.

MANKATO, MINN.—Bids will be received until 10 a. m., July 17, by F. W. Bates, City Clk., for the construction of a water-works plant.

MINNEAPOLIS, MINN.—The Water Committee is planning to lay a 50 or 60-in. main from the reservoir to Central Ave. and thence parallel to the 30-in. main in Central Ave. to the South Side. Henry A. Knott is City Clk.

*BEMIDJI, MINN.—Bids will be received until 8 p. m., July 24, by the City Council, for laying an 8-in. water main a distance of about 700 ft. and a 4-in. water main a distance of about 300 ft., including three hydrants, valves, etc. George Stein is City Clk. For details see advertisement in this issue.

✚BIRD ISLAND, MINN.—The contract has been awarded by the city to L. A. TINNES for laying water mains.

BENEDICT, NEB.—The village on June 27 voted to issue bonds for $10,000 for the installation of a water-works system.

WHITE LAKE, S. DAK.—The Missouri Valley Engineering Co., Mitchell, S. Dak., has been engaged to design and superintendent the construction of water-works here. Estimated cost, about $16,000.

CHAMBERLAIN, S. DAK.—We are officially advised that the Missouri Valley Engineering Co., Mitchell, S. Dak., has been engaged by the city by make an investigation of the advisability of securing water from the Missouri River as the artesian wells are running low.

SCOTLAND, S. DAK.—The citizens have voted $5,000 of bonds for the erection of a new steel tower.

HELENA, MONT.—The taxpayers on June 26 voted in favor of buying the plant of the Helena Water-Works Co. for $405,000. Noted on April 27 and June 22. Charles W. Helmick is Clk.

CULBERTSON, MONT.—We are officially advised that bids will probably be received in September for the construction of a water system here. Estimated cost, [illegible],000.

CABOOL, MO.—The city proposes to construct a water-works system. Estimated cost, about $8,000.

SHELBINA, MO.—The citizens on June 27 voted in favor of issuing bonds for $84,000 for the installation of a water-works and sewerage system.

MENA, ARK.—The Tonkawa Construction Co., of Kansas City, Mo., has submitted the lowest bid at $9,576 for constructing water-works. Separate contracts will be awarded for furnishing c.-i. pipe, hydrants and valves. Winters & Dove are Engrs., First National Bank Bldg., Fort Smith, Ark. Noted on March 16, March 23 and June 8.

GALVESTON, TEX.—Bids were received as follows on June 22 by the city for furnishing compound Corliss flywheel pump of not less than 4,000,000 gallons per day rated capacity at 55 lbs. delivery pressure, including all piping, valves, foundations and other material necessary to complete installation: Smith & Whitney, Dallas, Tex., one Canton-Hughes high-duty pumping engine, $17,854; A. M. Lockett & Co., New Orleans, la., one Laidlaw-Dunn-Gordon cross-compound engine, $13,987; one Prescott cross-compound Corliss crank and flywheel engine, $12,178; one Prescott cross-compound Corliss crank and flywheel engine, $12,778; Allis-Chalmers Co., Milwaukee, Wis., one horizontal cross-compound engine, $13,942.

✚BROWNSVILLE, TEX.—The GREER FILTER MFG. CO., of Pittsburg, Pa., has secured the contract for installing a water filtering plant for this city. The plans call for a plant capable of filtering 1,000,000 gallons of water a day, and it is so designed that it can be increased to supply 2,000,000 gallons.

BROWNSVILLE, TEX.—J. W. Hoit, of Brownsville, is promoting the construction of a large system of irrigation in the valley of the Rio Grande, near Donna. It is planned to run canals and laterals through about 50,000 acres of land. A pumping plant will be built and equipped with modern machinery. D. R. Swift, of Lake Charles, La., is also interested in the project.

BRYAN, TEX.—The City Council will soon order a special election to vote on the proposition of issuing $20,000 of bonds for making further improvements to the water-works and electric light plants and the sewerage system.

CHILLICOTHE, TEX.—The city has decided to construct a water-works system. Bonds for $15,000 have been voted. W. O. Scott is City Sec.

DENISON, TEX.—The City Council has taken steps toward installation of a pumping station at some point on the Red River and the laying of a water-pipe line from the station to this city, where connection will be made with the water-works distributing system. The proposed pipe line will be about four miles long. At present the city is obtaining its water supply chiefly from wells.

MIDLAND, TEX.—The Victor Irrigation Co. has been organized here with a capital stock of $125,000. It will construct a large system of irrigation and will install the necessary pumping machinery to place the water over the lands that are to be reclaimed. The incorporators are: Alfred C. Owens, Jacob C. Swain and Parker B. Rodgers.

SHERMAN, TEX.—The City Council has ordered the purchase of pumps, engines and compressors for the municipal water-works plant. Estimated cost, about $25,000.

*MUSKOGEE, OKLA. — Bids will be received by the City Council until 10 a. m., July 25, for the construction of Agency Hill Reservoir. The Agency Hill Reservoir is a reinforced-concrete circular structure, about 200 ft. in diameter, with a maximum depth of 31 ft. and a storage capacity of 6,000,000 gals. Plans and specifications can be secured at the office of T. P. Clonts, City Engr., or at the office of Alexander Potter, Consult. Engr., 114 Liberty St., New York, by payment of $2.50. Bids are to be filed with Charles Wheeler, Jr., City Clk.

✚MILLIKIN, COLO.—The contract for constructing a new water system here, it is reported, has been awarded to GEORGE SETHMAN, of Denver, Colo.

✚GREELEY, COLO.—The contract for constructing the Foothills Reservoir has been let to KINGSBURY BROS., of Greeley, by the Highland Ditch & Reservoir Co., at $110,000.

TUCUMCARI, N. M.—The formal transfer of the local water-works system to the City of Tucumcari has taken place. The plant will be enlarged and otherwise improved. Noted on March 16 and May 11.

*✚THISTLE, UTAH.—The contract for constructing a dike, to be located about 35 miles northeast of Thistle, has been awarded, it is reported, to W. O. MORRISON, of Denver, Colo., at $107,091. Bids were opened on June 19 by the U. S. Reclamation Service, Pravo, Utah. List of bidders noted on July 6.

TOMBSTONE, ARIZ. — The Hydroelectric Mining Co., will construct an extensive system of irrigation in the Sulphur Springs Valley, where it has taken up considerable land under the Desert Land Act.

CONCONULLY, WASH.—J. D. Morgan, it is reported, will install a water-works system and an electric light plant. Estimated cost, $6,000. F. R. Weeks is City Clk.

ORLAND, CAL.—The town, J. M. Tibessart, Clk., proposes to construct a water-works and a sewer system. Estimated cost, about $45,000. J. French, of Orland, is Engr.

TRACY, CAL.—The citizens on June 17 voted to issue bonds for the construction of a water-works system.

✚TURLOCK, CAL.—Bids were received on June 26 by the Board of Directors of the Turlock Irrigation District, Turlock, for the construction and completion of the proposed change in Turlock main canal, known as the "Waite Cut-off." We are officially advised that the contract has been awarded to L. U.

HOSKINS, of Turlock, at 9 cts. per cu. yd. for dirt, and 50 cts. per sq. yard, for hard pan. Other bidders were: J. D. Niman, 10¼ cts. and 10¾ cts.; C. A. Jackson, 18½ cts. and 20 cts. An[illegible] Sorensen is Secy.

LONGBEACH, CAL.—Bonds for $850,000 were voted on June 28 for the purpose of purchasing the two private water systems. Larger mains are to be laid and other improvements and extensions made.

*MANTECA, CAL.—One bid, that of Brown & Alcan, was received on June 19 and rejected on June [illegible] by the Directors of the South San Joaquin Irrigation District at Manteca, for furnishing the materials for and constructing Contract Divisions 1, 2, 3, 4, 5 and 6, of their irrigation system. New bids are asked until Aug. 5. The bid follows: (a) basis of bonds at 80%; (b) basis, cash; (c) engineer's estimate, basis of cash. Contract Division 1, Goodwin, dam and headworks, (a) $144,220, (b) $116,098, (c) $105,-142; Contract Division 2, Goodwin, dam site to Schell ditch, (a) $393,366, (b) $314,703, (c) $312,056; Contract Division 3, Schell ditch to east end of Hilt's Sag, (a) $244,100, (b) $195,282, (c) $194,886; Contract Division 4, Hilt's Sag structure, bids on wooden flume and trestle or on flume box only, (a) $35,033, (b) $28,746, (c) $28,500; on alternative reinforced-concrete flume and pieres or piers only, (a) $112,947, (b) $90,358, (c) $100,700; Contract Division 5, west end of Hilt's Sag to Woodward Reservoir (a) $220,469, (b) $176,375, (c) $172,374; Contract Division 6, Woodward reservoir to east edge of district, (a) $176,265, (b) $141,012, (c) $141,553. Edwin Duryea, Jr., Bank Bldg., San Francisco, Cal.

TAFT, CAL.—The Western Water Co. is considering installing a large plant in the western part of this city.

TAVISTOCK, ONT.—Bids will be received until July 20 by the city for two 500,000-gallon steam pumps, one boiler, etc.; also 1,000 ft. of fire hose. Plans and specifications may be seen at the office of F. W. Farncombe, Consult. Eng., London, Ont., or J. G. Field, Clk. of Tavistock.

*TORONTO, ONT.—The date of receiving bids for laying the new intake pipe in Lake Ontario for the Water-Works Department, has been extended until noon, July 17. Revised plans, specifications and forms of proposal may be obtained at the office of C. H. Rust, City Engr. Bids were to have been opened July 3 by F. S. Spence, Acting Mayor, Chm. Bd. of Control.

KINDERSLEY, SASK.—The citizens on June 23 voted by-laws for $28,000 for local improvements, including $10,000 for fire protection and $15,000 for sidewalks.

YORKTON, SASK.—Bids will be received until July 24 by T. F. Acheson, Secy.-Treas., for the construction of approximately 3,500 ft. of water main, and approximately 3,500 ft. of sewer main. Specifications, etc., from the Secretary-Treasurer. McArthur & Morphy are engineers.

SEWERS.

(*Denotes that this work is advertised in Engineering News.)

*PITTSFIELD, MASS.—Bids will be received by the Clerk of the Board of Public Works until July 19, for building a section of sewer, the work to include 7,500 cu. yds. of earth excavation, 16,000 lin. ft. of piles, 200 cu. yds. masonry, 1,500 lin. ft. 8 and 12-in. vitrified pipe and 4,600 lin. ft. 16, 18 and 24-in. c.-i. pipe. A. B. Farnham is Ch. Engr.

NEW YORK, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., July 19, for furnishing and installing a drain line connecting with the swimming pool drain lines of the public bath situated at 232 West 60th St., Boro. Manhattan.

NEW YORK, N. Y.—Bids wil be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10.30 a. m., July 20, for constructing sewers and appurtenances in various streets.

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., July 20, for constructing sewers and appurtenances, screens and screen house, laying pipe and similar work in various streets.

FRANKFORT, N. Y.—We are officially advised that bids for constructing a sewer system were received on June 25, as follows: Baker & Banker, $77,084; Bovee & George, $53,787; John R. Baxter, $56,378; Samuel Bonn, $65,700. Vrooman & Perry are Engrs. Noted on June 29.

HASTINGS, PA.—Bids will be received by the Borough Council until 8 p. m., July 13, for furnishing materials for a main sewer, as follows: 4,000 lin. ft. 12-in. sewer pipe; 11,000 brick, 75 bbls. Portland cement, 30 cu. yds. sand, 20 cu. yds. sand. Specifications and blank form of proposal may be produced at the office of C. S. Hoyt, Boro. Clk., Hastings, or at the office of R. Henry Shaffer, Swank Bldg., Johnstown. P. A. Strittmatter is Pres.

LIGONIER, PA.—Bids will be received by the Borough Council, Ira F. Brant, Secy., until Aug. 1, for constructing a sewage pumping plant and a sewage purification plant. F. H. Shaw, Reading, Pa., is Engr.

*HARRISBURG, PA.—Bids will be received until 2.30 p. m., July 31, at the office of the Board of Public Works, 222 Market St., for furnishing all materials and performing all labor for the construction of a reinforced concrete and vitrified pipe sewer, with appurtenances, along the east bank of the Susquehanna River, from Iron Alley to Division St. D. E. Tracy is Secy. of Bd. For details, see advertisement in this issue.

SUSQUEHANNA, PA.—Bids will be received by D. J. Lynch, Secy., Boro. Council, until July 13 for constructing five sewers.

*BALTIMORE, MD.—We are officially advised that bids for Storm Water Contract No. 14, Section No. 1 of Jones' Falls Conduits, were received by the Board of Awards on June 28, as follows: M. M. Elkan, Macon, Ga., $533,990; J. F. Cogan, 280 Broadway, New York City, $584,275; Keystone State Contracting Co., Penn Bldg., Philadelphia, Pa., $635,650; Smith-McCormick Co., Northampton Bank Bldg., Easton, Pa., $645,-160; Lane Bros. Co., Altavista, Va., $645,-666; Ryan & Reilly, Coleman Bldg., Philadelphia, Pa., $653,975; J. Connelly Construction Co., Schofield Bldg., Cleveland, Ohio, $650,390; Metropolitan Contracting Co., Boston, Mass., $675,835; Phoenix Construction Co., 41 Park Row, New York City, $674,555; B. F. Sweeten & Son, Baltimore, Md., $683,-734; Forschner & Sexton, Mount Vernon, N. Y., $684,164; Sanford & Brooks Co., 24 Commerce St., Baltimore, Md., $848,769; McLean Contracting Co., Baltimore, Md., $832,-398. Calvin W. Hendrick is Ch. Engr. of Sewerage Comn., American Bldg., Baltimore. Noted on June 8.

+ROANOKE, VA.—Contracts have been awarded to B. R. McGHEE & CO., as follows: Sewer system in the northwest, between West 4th St., Hart Ave., Lynchburg Ave. and north of Gregory Ave., $7,653; sewer system between Gainsborough and Madison Aves. and Moorman Road, $17,655.

*NEW ORLEANS, LA.—Bids will be received by F. S. Shields, Secy. Sewerage and Water Bd., until noon, Sept. 11, for the construction of the Napoleon Ave. system of drainage canals and pipe lines. The main items of the work will consist of approximately: 295,000 cu. yds. of excavation, 53,-000 cu. yds. of reinforced concrete, 73,000 lin. ft. of 36-in. to 6-in. terra cotta pipe lines, and other work incidental thereto.

COLUMBUS, OHIO.—Bids will be received by H. S. Bolton, Dir. Pub. Ser., until July 20 for the following sewers: Sewer in Chapel Alley, from Mitchell St. to Stokes Alley, and from Chapel St. to Town St.; sewer in the alley north of McCort Ave. and in the alley north of Morrill Ave.; sewer in the alley west of Oakwood Ave., from a point opposite lot 141; sewer in the alley east of Parsons Ave., from Moler St. to the alley north of Marion St.; sewer in Seventh St., from Markison Ave. to the alley north of Morrill Ave.

CLEVELAND HEIGHTS (Cleveland post-office) OHIO.—Bids will be received by H. H. Canfield, Village Clk., 300 Beekman Bldg., Cleveland, until July 25, for constructing sewers in Taylor, Glen and Wood Roads.

COLUMBUS, IND.—The City Council has ordered plans and specifications for a complete new sewer system. Bids will be asked in a few weeks.

MARQUETTE, MICH.—It is proposed to build a 3-ft. sewer from Third and Specular Sts. diagonally across to Prospect St. and thence around the foot of the hill to the lake, the outlet being just west of the land end of the breakwater, or at the foot of Walnut St. The cost is estimated at $35,000. Charles Cummings is City Engr.

BLOOMINGTON, ILL.—Bids will be received until July 20 for 1,177 ft. of 15-in., 2,627 ft. 12-in., and 1,085 ft. 6-in. pipe sewers. E. Folsom is City Engr.

BELOIT, WIS.—The special Sewerage Committee of the Common Council has recommended the construction of an underground septic tank disposal plant in the new District B.

JOHNSON CREEK, WIS.—E. C. Davis, Cons. Engr., has been employed by the Village Board to prepare plans and specifications for a complete sewerage system. H. J. Grell is Pres.

+WEST ALLIS, WIS.—L. W. SCHRUTH, West Allis, has been awarded the contract for constructing sewers at following prices: 8-in. pipe, 95 cts.; 10-in., $1.05; 12-in., $1.20; 15-in., $1.32.

*PORT WASHINGTON, WIS.—Bids will be received by W. B. Krause, City Clk., until 7 p. m., July 17, for constructing 15,565 ft. of 10-in., 6,166 ft. 12-in., 971 ft. 15-in. 1,014 ft. 18-in., and 2,101 ft. 24-in. vitrified salt-glazed pipe sewer, and 115 manholes, according to plans and specifications on file in the office of the City Clerk.

+NEVADA, IOWA.—Contracts have been awarded as follows: Disposal plant, to ZITTERALL & SULLIVAN, Webster City, Iowa, at $5,167; outlet sewer, to W. D. YEAGER, Cedar Rapids, Iowa, at $5,164.

+WATERLOO, IOWA.—Contracts for the construction of 8,680 ft. of sewer of sizes varying from 10 to 30-in., have been awarded by the City Council to the BLACKHAWK CONSTRUCTION CO., Waterloo, at the following bids: 5,170 ft. 10-in., 54 cts.; 1,890 ft. 12-in., 67¼ cts.; 1,220 ft. 15-in., 74½ cts.; 400 ft. 30-in., $3.44.

DULUTH, MINN.—Plans have been prepared by John Wilson, Deputy City Engr., for constructing the Woodland trunk sewer. The sewer will extend from Austin and Randle Aves. to the lake at a point near 36th Ave. East, and is estimated at $44,605.

*HOISINGTON, KAN.—Bids wil be received at office of City Clerk until 2 p. m., July 19, for the construction of approximately 8.2 miles of sewers and a disposal plant. Plans, etc., may be obtained from Rollins & Westover, Engrs., Beals Bldg., Kansas City, Mo. Charles Hall is Mayor.

+PARSONS, KAN.—We are officially advised that contracts were awarded on July 1, as follows: For constructing a main and an intercepting sewer to J. W. KELSO, Iola, Kan., at $26,280; for constructing a septic tank, to the CONCRETE CONSTRUCTION & ENGINEERING CO., Iola, Kan., at $23,-533. T. B. J. Wheat is City Clk.

FALLS CITY, NEB.—We are officially advised that a preliminary survey is being made for a sanitary sewer system at Falls City. Adna Dobson, City Engr. of Loncoln, Neb., is Design Engr.

PRESCOTT, ARK.—The City Council is considering the construction of a sewerage system to cost $35,000.

*MUSKOGEE, OKLA.—Bids will be received by the City Council until 10 a. m., July 25, for constructing Sections 7 and 8 of the Coody Creek Sanitary Outfall Sewer. About 7,710 ft. of 18-in., 3,600 ft. of 27-in., 4,400 ft. of 30-in. and 3,000 ft. of 39-in. sewer, will be needed. E. H. Fleming is Comr. Water, Lights and Sewers; Alexander Potter is Consult. Engr., and T. P. Clonts is City Engr.

COLORADO SPRINGS, COLO.—The City Council has authorized the City Engineer to advertise for bids for sanitary sewer work in various parts of the city, to cost $24,000.

+LOS ANGELES, CAL.—The Board of Trustees has awarded a contract to the CALIFORNIA ORNAMENTAL BRICK CO., Los Angeles, for laying 16,500 ft. of sewer.

ORLAND, CAL.—See item under Water Supply—Irrigation.

SAN FRANCISCO, CAL.—John Daniel submitted the lowest bid for constructing Section G of the North Point main sewer, at $91,500.

+ORANGE, CAL.—The following bids have been received by the Board of Trustees for the construction of the municipal sewer system: CALIFORNIA ORNAMENTAL BRICK CO., Central Bldg., Los Angeles, at $7,854 (awarded contract); Geo. Wujacich, $8,383; P. Tomich and B. C. Nichols, $8,418; Geo. Benson, $10,186; A. C. Hughes, $10,387; W. J. Eggert, $10,695; Westlake Construction Co., $12,370.

STREETS AND ROADS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—Bids will be received until July 17 for wood block pavement in Milk St. and in East Fourth St.; also for sidewalks in Standish St. L. K. Rourke is Comr. Pub. Wks.

SPRINGFIELD, MASS.—Bids will be received by the Board of Supervisors of Highways and Bridges until July 17 for macadamizing and constructing retaining walls on Locust St., and extending the present bridge structure over Mill River. Chas. M. Slocum is City Engr.

WATERBURY, CONN.—Bids will be received by the Board of Public Works until 8 p. m., July 18, for laying 11,000 sq. yds. of vitrified brick pavement and for 10,000 sq. yds. of macadam roadway. Robert A. Cairns is City Engr., 9 Leavenworth St., Waterbury.

*NEWBURGH, N. Y.—Bids will be received by the City Clerk until 5 p. m., July 25, for paving or repaving Colden and Water Sts., between Broadway and South St., in accordance with plans and specifications prepared by William J. Blake, Jr., City Engr. Bids will be received for paving with new granite block, vitrified brick and for relaying old granite block. There is about 6,450 sq. yds. of pavement, 10 cu. yds. extra concrete, 25 catch basins, 4 sewer manholes and 5,000 lin. ft. of curbstone, etc.

NEW YORK, N. Y.—Bids will be received by Lawrence Gresser, Pres. Boro. Queens, until 11 a. m., July 19, for regulating, repaving, and otherwise improving various city streets.

NEW YORK, N. Y.—Bids will be received by Cyrus C. Miller, Pres. Boro. The Bronx, until 10.30 a. m., July 20, for paving various streets.

NEW YORK, N. Y.—Bids will be received by Charles B. Stover, Pres. Park Bd., until 3 p. m., July 20, for repairing asphalt block pavement on the roadway of Bushwick Ave., between Eastern Parkway Extension and Jamaica Ave., Borough of Brooklyn; and for furnishing all the labor and materials for completing the grading and for laying asphalt block pavement on the unpaved portions of the roadway, on the southerly side of the Bronx and Pelham Parkway, from White Plains Road to the bridge over the tracks of the New York, New Haven & Hartford R. R., Borough of the Bronx.

NEW YORK, N. Y.—Bids will be received by George Cromwell, Pres. Boro. Richmond, until noon, July 18, for regulating, repaving and repairing sidewalks on various streets.

+NIAGARA FALLS, N. Y.—The Board of Public Works has awarded a contract to the READE-CODDINGTON CO. for paving Highland and Whirlpool Aves, at $21,365 and $17,732, respectively. Three bids on other thoroughfares were above the estimates, and the City Engineer will readvertise for bids.

SENECA FALLS, N. Y.—At a special election the taxpayers voted to spend $81,000 for paving East and West Bayard Sts.; Fall St., between Ovid and Day Sts.; State St. to the N. Y. Central tracks north to Butler Ave.; Bridge St., between the canal and West Bayard; Clinton and Rumsey Sts., from Fall St. to the railroad.

HOBOKEN, N. J.—Bids will be received by James H. Londigan, City Clk., until 4 p. m., July 26, for improving portions of Second St. and Willow Ave.

NEWARK, N. J.—We are officially advised that bids were received on July 6 for repaving Market St. as follows: Jersey Paving Corporation, 127 Frelinghuysen Ave., Newark, $22,861; Newark Paving Co., 133 First St., Newark, $24,756; J. F. Shanley Co., Badger Ave. and Bigelow St., Newark, $24,-113; Van-Keuren & Son, Passaic Ave., Harrison, N. J., $24,412; McMahon Construction Co., 1238 Broad St., Newark, $26,130.

Bids for repaving Bowery St., were as follows: Jersey Paving Corporation, $44,092; Newark Paving Co., $47,322; J. F. Shanley Co., $46,109; Van Keuren & Son, $46,648. M. R. Sherrerd is City Engr.

PLAINFIELD, N. J.—We are officially advised that the lowest bid received on June 26 for paving various streets was submitted by Mobus & Burke, Plainfield, at $30,195.

RUTHERFORD, N. J.—Bids will be received by the Mayor and Borough Council until July 14 for laying 6-in. macadam pavement on Sylvan St., Montrose and Fairview Aves. and Ridge Road. F. A. Stedman is Boro. Clk.

*BRIDGETON, N. J.—Bids will be received by Benjamin Erickson, Chn. Public Road Com. of the Bd. of Chosen Freeholders of the County of Cumberland, until 11 a. m., Aug. 9, for the permanent improvement of a public road in the Township of Deerfield in the County of Cumberland, about 7.9 miles long. The approximate quantities are as follows: Earth excavation, 19,150 cu. yds.; grubbing, 1½ acres; compacted gravel, 15,123 cu. yds.

+FAYETTE, PA.—We are officially advised that the contract for constructing a macadam telford road has been awarded to A. S. ROTHEY, Elizabeth, Pa., at $21,784. The other bidders were: John F. Howley & Co., Pittsburg, Pa., $28,476; Cressan Construction Co., Brownsville, Pa., $26,571; Donora Construction Co., Donora, Pa., $21,-338. A. H. Binno is Secy.

+WILSON, PA.—We are officially advised that the contract for improving Fourth St. was awarded on July 6 to P. RHOADES & CO., McKeesport, Pa., at $5,637. The other bidders were: D. B. Hough Co., McKeesport, Pa., $8,422; D. Paterson & Johnstown, Wilton, Pa., $6,507; Calman G. Boyle, Chartion, Pa., $6,544; James Topley & Co., McKeesport, Pa., $6,914; Maynard Co., Pittsburg, Pa., $6,248.

HYATTSVILLE, MD.—Plans are being prepared for grading, laying out sidewalks, and constructing gravel and macadam roads on four of the principal streets. Reding & Howard, Hoffman Bldg., Baltimore, Md., are the Engrs.

TOWSON, MD.—Bids will be received by the Highway Commission of Baltimore County until noon, July 20, for the following work: For improving a section of Prospect Ave., Roland Park; for macadamizing Thornton Road, from the Joppa Road to Seminary Ave., a distance of about 6,000 ft.; bridge on the Block Road; bridge on Philadelphia Road, over Honego Run; bridge on Philadelphia Road; bridge on Ingleside Ave.; bridge on Blenheim Road, over Dance's Run; bridge on Phoenix Road, over Moore's Run; bridge on Nunnery Lane. Henry G. Shirley is Engr.

+BALTIMORE, MD.—The contract was awarded on June 28 to F. E. SCHNEIDER PAVING CO. for improving Lanvale and Calvert Sts. The other bidders were Wm. M. Elder, $25,684; Filbert Paving & Construction Co., $26,798; Atlantic Bitulithic Co., $30,132.

WASHINGTON, D. C.—Bids were received on July 7 by the Commissioners of the District of Columbia for laying cement sidewalks as called upon in the District of Columbia: Warren F. Brenizer Co., Washington, Class (A), 96¾ cts.; (B) $1.20; Cranford Paving Co., Washington, (A) $1.03; (B) $1.27.

+ROANOKE, VA.—The contract for improving Harrison and East Aves. has been awarded to C. MARKLEY, Roanoke, at $10,-890. W. L. Craft is City Clk.

+WISE, VA.—A contract has been awarded to T. ROWERS & CO., Princeton, W. Va., to construct Road Sections 5 and 6, extending from Coeburn to St. Paul and from Coeburn to Dickenson County line, and to BUNN & PETTIT, Big Stone Gap, Va., to construct Road Sections 1, 3, 4 and 11.

GRAFTON, W. VA.—We are officially advised that the City Council has ordered plans and specifications for paving ten blocks of streets. J. Clyde Lewis is City Engr.

JACKSONVILLE, FLA.—Bids will be received by the County Commissioners until July 21 for grading and paving with vitrified brick portions of Main St. and Panama Park Road; furnishing and delivering carload lots of Georgia gravel at Broward and Duval stations on the Seaboard Air Line Ry., north of Jacksonville; and hauling and spreading oyster shells and gravel. Gail L. Borden is County Engr.

+MERIDIAN, MISS.—We are officially advised that the contract for constructing the Pushmataha, Iuqualena and Fifth St. Roads was awarded, on July 6, to the HEALY CONSTRUCTION CO., McAlester, Okla., at $42,759. The other bidders were: G. B. Hard & Co., Brookhaven, Miss., $53,614; A. E. Perry, Montgomery, Ala., $48,831. W. P. Moore, Meridian, Miss., is Ch. Engr., Good Roads Comn. Noted on June 29.

+NASHVILLE, TENN.—The contract amounting to $10,115 has been awarded to BOYD WILLIAMS, McMinnville, Tenn., for widening approach to Hyde's Ferry bridge. Howard M. Jones is Engr.

CLEVELAND, OHIO.—B. A. Lea, Dir. of Public Service, will receive bids until Aug. 13 for improving various streets.

+COLUMBUS, OHIO.—Contracts for street paving have been awarded by the Board of Control as follows: Sixteenth Ave., from Summit St. to railroad tracks, M. J. BURNS, Nelsonville Block, at $8,787; 17th Ave., from Summit St. to second alley east of Fourth St., GEORGE W. PATTERSON & SONS, Nelsonville Block, at $10,020; Eldridge St., from Mt. Vernon Ave. to Maryland St., S. T. KNIGHT, Carlyle Block, at $10,006; Donaldson St., Fourth to Seventh St., GEIGELE, GARNES & CO., Nelsonville Block, at $7,-764; Harris St., from Grace to Steele Sts., WILLIAM M. GRAHAM, Trimble Block, at $5,108; Hildreth Ave., from Gibbon to Johnstown Sts., A. G. PUGH, Sciotoville Block, at $13,084; Morrill Ave., from Parsons Ave. to Ann St., WILLIAM M. GRAHAM, Trimble Block, at $3,360; Ogden Ave., from Broad St. to Steele Ave., WM. M. GRAHAM, Trimble Block, at $9,777; Rich St., from Rose to Abbott Ave., WM. M. GRAHAM, Trimble Block, at $5,129; Short Alley, from Mound St. to alley south of Livingston Ave., H. J. SHAW, Carlyle Block, at $8,741; Southwood Ave., from High to Fourth St., GEIGELE, GARNES & CO., Nelsonville Block, at $14,259; State St., from Richwood Ave. to Glenwood St., GEIGELE, GARNES & CO., Nelsonville Block, at $10,037; Warren St., from Broad to Steele, WM. M. GRAHAM, Trimble Block, at $9,309; Welch Ave., High to Fourth Sts., GEIGELE, GARNES & CO., Nelsonville Block, at $6,-365.

COLUMBUS, OHIO.—Bids will be received by H. S. Holton, Dir. Pub. Ser., until July 17, for constructing sidewalks on Broad, Chestnut, Fulton, Gay and other streets.

✚FREMONT, OHIO.—The contract for paving Lynn St. has been awarded to the MODERN CONSTRUCTION CO., Fremont, at $9,922.

✚MARIETTA, OHIO.—The contract for paving Sixth St. has been awarded to PUTNAM & PRICE, and for paving Knox St. to CISLER & MORSE.

WAPAKONETA, OHIO.—Bids will be received by the Village Clerk until noon, July 28, for improving Auglaize St. south to Pearl St. Fred A. Klipfel is Clk.

✚YOUNGSTOWN, OHIO.—A contract has been awarded for paving Myrtle Ave., between South and Glenwood Aves., to KENNEDY BROS., Youngstown, at $39,865.

DANVILLE, IND.—Bids will be received by Commissioners of Hendricks County until 10 a. m., July 28, for the construction of four gravel roads in Center Township and one gravel road in Franklin Township Wm. H. Nichols is County Audr.

✚GREENCASTLE, IND.—The Putnam County Commissioners have awarded contracts as follows: Arnold road, HURST & SWEET, $4,858; Matthews road, McGUIRE & SON, $4,458; W. J. Smith road, JAMES MAHONEY, $7,389; Wright Road, J. M. LISBY, $8,750.

LIBERTY, IND.—Bids will be received by Commissioners of Union County until 2 p. m., Aug. 7, for the construction of two gravel roads in Harrison Township. Clinton Gardener is County Audr.

LAFAYETTE, IND.——Bids will be received by the Board of Public Works until Aug. 1 for paving South Ninth St. with asphalt.

MUNCIE, IND.—The Commissioners of Delaware County have awarded the contract for the construction of the Yorktown pike to WM. BIRCH at $11,975.

✚MARTINSVILLE, IND.—The contract for constructing a macadam road in Adams Township has ben awarded to E. A. BOUM for $9,782.

RUSHVILLE, IND.—Bids will be received until 2 p. m., July 28, by the County Commissioners for the construction of a gravel road in Richland Township. Jesse M. Stone is County Audr.

RUSHVILLE, IND.—The Commissioners of Rush County will receive bids until 10 a. m., July 28, for the construction of a macadamized road in Richland Township known as the Wiley road and a macadamized road in Noble Township known as the Morris road. Jesse M. Stone is County Audr.

TERRE HAUTE, IND.—Bids will be received by Commissioners of Vigo County until 11 a. m., July 22, for the construction of a gravel road known as the Holdaway road in Fayette Township. Nathan G. Wallace is County Audr.

TERRE HAUTE, IND.—Bids will be received by the Commissioners of Vigo County until 11 a. m., July 25, for the construction of 3,539 ft. of gravel road in Sugar Creek Township, known as the Joseph Crews road. Nathan G. Wallace is County Audr.

✚VINCENNES, IND.—The Knox County Commissioners have let contracts as follows: Wampler road, JESSE WILLIAMS, $7,890; Schultz road, ED. VOLLMER, $7,993; Polk road, W. E. RUBLE, $7,200; Ashley road, H. F. JONES, $11,750; Spitz road, JAMES McANDREW, $6,900.

VINCENNES, IND.—Bids will be received by the Commissioners of Knox County until 2 p. m., Aug. 8, for the construction of 8,575 ft. of gravel roads in Widner Township, known as Henry F. Noble road. John T. Scott is County Audr.

STANLEY, WIS.—We are officially advised that bids for constructing 42,000 sq. yds. of pavement were received on July 5 as follows: Thos. E. Wolley, La Crosse, Wis., $10,312; Bachellor & Powell, La Crosse, $10,650. L. G. Arnold, Chippewa Falls, Wis., is Engr. Noted on June 29.

SHENANDOAH, IOWA.—Bids will be received until July 18 for 24,000 sq. yds. asphalt paving on a concrete base. F. L. Cain is City Engr.

*BEMIDJI, MINN.—Bids will be received by Geo. Stein, City Clk., until 8 p. m., July 24, for paving streets with concrete, a distance of about ten blocks, approximating 21,175 sq. yds.

MINNEAPOLIS, MINN.—Bids will be received until 11 a. m., July 24, by the Board of Commissioners of Hennepin County for grading and graveling road No. 2, contract No. 20, in the town of Eden Prairie, and for resurfacing and graveling road No. 12, Contract No. 24. in the town of Dayton. A. P. Erickson is County Audr.

✚ALBERT LEA, MINN.—We are officially advised that the contract for constructing 32,280 sq. yds. of pavement, for which bids were received on June 19, has been awarded to FIELDING & SHIPLEY, St. Paul, Minn., at $72,513. The other bidders were: Schwepper Bros., St. James, Minn., $77,472; General Construction Co., Minneapolis, Minn., $73,583; Thos. W. Kelley, Chicago, Ill., $64,608. Wm. Barneck is City Engr. Noted on June 15.

ALBERT LEA, MINN.—Bids will be received by C. J. Dudley, City Clk., until July 14 for constructing 16,917 sq. ft. of concrete, brick or stone sidewalk, and for relaying and bringing to grade 2,368 sq. ft. of walk.

MARSHALL, MINN.—Bids will be received by the County Commissioners until July 18 for improving Lyon County State Road No. 1 a distance of one mile through Sec. 12, Town of Lynd. Ernest S. Shepard is County Audr.

MINNEAPOLIS, MINN.—Bids will be received by the County Commissioners until

LINCOLN, NEB.—Bids were received for the paving of District 199, Lincoln, Neb., as follows: M. Ford, $17,567 and the Gardener-Cochran Construction Co., $17,650.
July 24 for grading and macadamizing Road No. 41. A. P. Erickson is County Audr.

✚MARLIN, TEX.—The City Council has awarded a contract to RAY McDONALD, Austin, for laying 5,000 sq. yds. of granitoid paving at $1.90 per sq. yd.

SAN ANGELO, TEX.—The City Council has had plans prepared for paving the business streets of the city with rock asphalt. About $100,000 will be spent in this improvement.

COLFAX, WASH.—Bids will be received by the Commissioners of Whitman County until 10 a. m., July 17, for constructing 16,243 lin. ft. of macadam road. S. M. McCroskey is County Audr.

✚MOUNT VERNON, WASH.—We are officially advised that the contract for constructing various streets, for which bids were received on April 12, was awarded on June 28 to the C. L. MORRIS CONSTRUCTION CO., Seattle, Wash. J. H. Smith is City Clk.

✚LOS ANGELES, CAL.—Contracts have been awarded by the city Board of Public Works as follows: For improving Eleventh St., between Main and San Pedro Sts., to BARBER ASPHALT PAVING CO., at $950 for culvert, 16 cts. per sq. ft. asphalt paving, 30 cts. per lin. ft. for cement curb, 25 cts. per sq. ft. for vitrified block gutter, aggregate amount, $16,475; for improving Chelsea St., between Soto and Irving Sts., to D. D. CHAPMAN at $5.50 per lin. ft. for grading and graveling, 35 cts. per lin. ft. for cement curb, 15 cts. per sq. ft. for cement gutter, 35 cts. per sq. ft. for vitrified block gutter, aggregate amount, $11,013; for improving G St., from West Seventh St. to the north city limits, to STANFORD & FETTERMAN, at 72 cts. per lin. ft. for grading and graveling, 36 cts. per lin. ft. for cement curb, 16 cts. per sq. ft. for cement gutter, 36 cts. per sq. ft. for vitrified block gutter, $3.25 per lin. ft. for culverts, aggregate amount, $17,961.

LOS ANGELES, CAL.—The Wilshire Heights Co., C. Fiske, Jr., Los Angeles, Engr., has awarded a contract to J. H. MAXEY, Tucson, Ariz., for grading the streets and blocks in Wilshire Heights, at 75 cts. per cu. yd. for excavation.

WELLAND, ONT.—Bids will be received by Geo. R. Boyd, Town Clk., until July 30 for constructing pavement on portions of East Main, Muir and West Main Sts. Bids will be considered on asphalt block, vitrified brick, taralithic and bitulithic with brick between tracks, and extending 18 ins. on the outside rails, on 6-in. concrete foundation.

MANUFACTURING PLANTS.

(*✚Denotes a contract awarded.*)

✚ATTLEBORO, MASS.—The B. F. SMITH CO., of Pawtucket, R. I., has been awarded the contract to erect a 3-story mill for the Crown Mfg. Co. at a cost of about $100,000.

BOSTON, MASS.—The Macallen Co., of Division St., South Boston, are planning a large brick addition to the plant for the manufacture of electrical devices. An elaborate system of sprinklers and pump is also to be installed for fire protection. Louis McCarthy is Treas.

Bids will be received until July 20 for refrigeration plant at Consumptives Hospital, Mattapan. Hollis, French & Allen, 85 Beach St., are Engrs.; Edward F. McSweeney is Chn. of Trustees.

CHICOPEE, MASS.—GEORGE H. FUGERE has been awarded the contract for an addition to the factory of the Lamb Knitting Machine Co. on Montgomery St. The new building will be 42 × 55 ft., five stories high, of brick with brownstone trim. A tower 18 ft. square and six stories high will also be erected.

FALL RIVER, MASS.—The Fall River Webbing Co. has been organized by John H. Estes, Jonathan T. Lincoln, Alexander Simmons, Treas., and others, with $40,000 capital, to manufacture spool tapes, braids, webbing, corset lace and hospital gauze, etc.

PROVIDENCE, R. I.—The De Luxe Hosiery Co., with a capital of $300,000, organized for the purpose of manufacturing silk hosiery in all its branches, has been granted a charter. The incorporators are Alexander McCallum, George Bliss McCallum and John William Alpin, all of Northampton, Hampshire County, Mass.

BRIDGEPORT, CONN.—Plans have been drawn by Arch. Arthur S. Meloy, 17 P. O. Arcade, for a new building at the plant of the H. H. Sprague Co. on Water St. The building will be 65 × 152 ft., two stories and basement, which will require waterproofing. A freight elevator will also be required.

The construction of a 3-story addition is being considered by the Bridgeport Elastic Fabric Co., Bridgeport.

KILLINGLY, CONN.—The Chase Woolen Co., Killingly, Conn., has organized to operate woolen mills, $50,000 capital. Officers: Chas. D. Chase, Pres. and Treas.; Warren D. Chase, Secy. and H. D. Chase, Asst. Treas.

NEW HAVEN, CONN.—It is reported that the entire contract for the proposed addition to the plant of the New Haven Pulp & Board Co. on Railroad Ave. has been awarded to THE RUFUS H. BROWN CO., INC., Temple Bar, New York. The building will be four stories high, 67 × 131 ft., of brick and reinforced concrete. The plans were drawn by Arch. F. L. Smith, 5 Beekman St., New York. Noted June 15.

From plans drawn by R. W. Foote, Arch., 215 Malley Bldg., New Haven, the HUBBELL & MERWIN CO., 21 Artigan St., has been awarded the contract for the addition to the plant of the H. B. Ives Co. The building will be of brick, mill construction, 40 × 110 ft., and four stories high. An elevator will be required. Noted June 15.

✚STAMFORD, CONN.—The VUONO CONSTRUCTION CO., general contractors for the new building on Pacific St. for the Kroeger Piano Co., has awarded sub-contracts as follows: Lumber, the GETMAN & JUDD CO.; interior trim, the STAMFORD LUMBER CO.; steel work, the EASTERN BRIDGE & STRUCTURAL CO., Worcester, Mass. Noted June 15.

✚BUFFALO, N. Y.—The contract has been awarded to MOSIER & SUMMERS, 1206 Seneca St., for the construction of a warehouse and storage building for the plant of the American Agricultural Chemical Co., Lyman and Lewis Sts.

NORWICH, N. Y.—Plans have been prepared for the Norwich Pharmacal Co. for a 12-story power-house, 40 × 80 ft., brick and concrete construction, which it will add to its plant at once. F. L. Comstock, Gloversville, is Arch.

✚WATERVLIET, N. Y.—LEWIS A. MILLER, Meriden, Conn., has been awarded the general contract for construction of a group of new buildings at the plant of the Manning Sand Paper Co. One building will be 95 × 100 ft., three stories high; another 50 × 60 ft., five stories high and a boiler-house 30 × 46 ft., one story high; all of brick and heavy mill construction. Noted June 29.

EAST ORANGE, N. J.—The Essex Knitting Mills have been incorporated by George E. Clark, Newark; Cassius E. Hiatt, of East Orange, and John Franklin Meyer, of Bloomfield, N. J. The new concern will be capitalized at $50,000.

NEWARK, N. J.—Plans have been prepared by W. O. Bartlett for the construction of a 5-story brick factory for J. Nathaniel Glass. The cost is about $75,000.

PATERSON, N. J.—It is reported that the Standard Textile Co. has been incorporated at Paterson, N. J., with a capital of $120,000. The incorporators are: N. Garfinkle, E. B. Hindley, R. Leggett.

✚GREER, S. C.—The contract has been awarded to the GALLIWARE BUILDING CO., Greenville, S. C., for the erection of a building for the Greers Manufacturing Co. Plans were prepared by Lockwood, Greene & Co., 93 Federal St., Boston, Mass. About $250,000 will be expended.

JACKSONVILLE, FLA.—S. S. Goffin will organize a company with $50,000 capital to build a plant for manufacturing cotton and burlap bags, it is reported.

BIRMINGHAM, ALA.—It is reported that a liquid carbonic acid plant will be constructed here. The cost is about $25,000. Samuel Worchester is interested.

DECATUR, ALA.—It is reported that the Morgan County Cotton Compress Co. has been incorporated by Robt. G. Cortner with a capital of $25,000, and will erect a compress and warehouse on Alabama St. and the Tennessee River.

HUNTSVILLE, ALA.—Extensive improvements are contemplated by the stockholders of the Farmers' Cotton Oil Co. The cost is about $500,000.

PADUCAH, KY.—It is reported that L. D. Fouts and others have purchased a tract of land and will engage in the manufacture of paving brick.

CINCINNATI, OHIO.—The Union Gas & Electric Co. will erect a large material warehouse at Blair Ave. and Weatherhead Pl., the structure to be 20 × 250 ft., two stories in height, and of ornamental exterior.

TOLEDO, OHIO.—Press reports state that the Dolphin Hosiery Co., Toledo, has increased its capital stock from $10,000 to $20,000 fgor the purpose of allowing more working capital and expanding business.

The Continental Sugar Co. will remove its plant to Toledo and erect a central plant.

AURORA, ILL.—The Bi-Town Brush Co. will erect a 1-story factory, 100 × 200 ft., at a cost of $25,000.

CHICAGO, ILL.—Plans are being prepared by W. L. Stebbings, 53 Van Buren St., for the construction of a factory building for John A. Tolman, 4 East Lake St. The Northwestern Can Co. and Davidson Bros. are lessees.

Bids are being received for the construction of a brass foundry at 157 North Desplaines St. for the Crane Co. The building will be constructed of brick, concrete and steel, 70 × 130 ft. J. C. Kilgore is Supt. of Constr., 157 North Desplaines St.

MOLINE, ILL.—The COLLINS BROS., Rock Island, have been awarded the contract to erect a 4-story fireproof addition to the plant of Augustana Book Co., on 28th St.

MURPHYSBORO, ILL.—Charles F. May, Merchants Laclede Bldg., St. Louis, Mo., has completed plans for the machine shop in Jackson County for the Southern Illinois Machinery & Foundry Co., 417 South 17th St., Murphysboro, Ill.

✚BELOIT, WIS.—The Warner Instrument Co. has awarded the contract for constructing a new brass foundry, 32 × 50 ft., of solid brick construction, to WILLIAM FITZGERALD & CO., Beloit. Cost, $12,000, equipped.

DENMARK, WIS.—It is reported that the Denmark Condensed Milk Co. has been incorporated to erect a condensed milk factory. John Enz is Secy.

✚HORICON, WIS.—J. P. CULLEN & CO., Janesville, Wis., have been awarded the contract for a 3-story and basement building, 125 × 130 ft., for the Van Brunt Manufacturing Co. Plans by Guilbert & Funston, Racine, Wis.

✚MENASHA, WIS.—J. H. LAUDREY, Appleton, holds the contract for the construction of the proposed mill for the Lakeside Paper Co.

MILWAUKEE, WIS.—Leenhouts & Guthrie, Archs., Miller Blk., are preparing plans for a $50,000 manufacturing building for The Chain Belt Co., 736 Park St. It will be 80 × 250 ft. in size, two stories high, with concrete foundations and brick walls, with equipment for the manufacture of elevator casings and concrete mixers. W. C. Sargent is Secy.

✚NEENAH, WIS.—The Lakeside Paper Co. awarded the contract for superstructure of the new $250,000 tissue mills here to the J. J. LANDRY CO., Appleton, Wis., and contract for excavating and concrete foundations to ANTON NIELSEN, Neenah.

SULLIVAN, WIS.—The Sullivan Condensed Milk Co., incorporated for $200,000, has awarded the general contract for the construction of a condensing plant to A. MONSTED CO., Milwaukee. The building will be 85 × 168 ft. in size, of reinforced-concrete construction, two stories high, with a separate power-house, 52 × 70 ft. E. C. Stage is Supt.

FORT MADISON, IOWA.—The Brown Paper Co. will build a brick addition, 56 × 280 ft., with creosote wood block floor.

FOREST CITY, IOWA.—A site has been secured by the Forest City Creamery Association for the erection of its proposed creamery.

LONG PRAIRIE, MINN.—The stockholders of the Todd County creamery will commence the erection of a modern 2-story brick creamery building soon.

✚GRAND RAPIDS, MINN.—The contract has been awarded to GEORGE ARSCOTT for the excavation for a boiler room for the Itasca Paper Co.

CROCKETT, TEX.—J. C. Wilson is arranging to install a factory here for the manufacture of pressed brick. Considerable machinery will be required for the proposed plant.

HARLINGEN, TEX.—Lon C. Hill and associates will erect a large cotton-seed oil mill at this place. The same interests also contemplate installing an ice factory of large capacity.

ORANGE, TEX.—The Orange Commercial Club is creating a fund of $50,000, which is to be used in promoting the establishment here of new factories.

SAN ANTONIO, TEX.—The San Antonio Machine & Supply Co. will install a large plant here for the manufacture of gasoline engines and machine shops to repair same.

TRINITY, TEX.—Negotiations are in progress looking to the erection of a large cotton compress here. The State Bank of Trinity is interested in the project.

CENTRALIA, WASH.—J. W. McAfee, Topeka, Kan., is contemplating the construction of a woolen mill to cost $75,000.

HILLYARD, WASH.—The Great Northern Ry. Co. has awarded the general contract to E. G. WOENSTA & CO., 30 N. W. Bldg., Minneapolis, Minn., for the construction of a machine shop. The cost is about $100,000.

PASCO, WASH.—Plans have been completed for car shops, round-house and added trackage facilities which are to be made in the Pasco yards of the Northern Pacific R. R. W. L. Darling, St. Paul, Minn., is Ch. Engr. Cost, about $600,000.

PORTLAND, ORE.—Plans are being prepared for Schwarzschild & Sulzberger, 103 Front St., for a packing plant, which they intend erecting in Portland. Cost, about $400,000.

NATIONAL CITY, CAL.—The California China Products Co. has been incorporated for the purpose of manufacturing crockery, chinaware and clay products. A plant is contemplated. Walter Norfhoff is Mgr., Twelfth St. and Seventh Ave.

BARSTOW, CAL.—The Santa Fe roundhouse, machine shop, etc., recently destroyed by fire, will be rebuilt of concrete.

LOS ANGELES, CAL.—It is reported that the Cerritos Sugar Co., Equitable Savings Bank, has been incorporated with a capital of $750,000 for the purpose of constructing a beet sugar factory.

OXNARD, CAL.—W. B. DeNure will erect a $25,000 plant here for the manufacture of hardwood flooring, it is reported.

HAMILTON, ONT.—The Boston Insulated Wire Co.; of Dorchester, Mass.; the Taylor Manufacturing Co., of Princeton, Ind., and the Mayor-Brown Co. have also decided to establish branches at Hamilton.

HAMILTON, ONT.—The Standard Cable Co., of Pittsburg, will erect a $500,000 plant here. Joseph W. Marsh, Pittsburg, Pa., is Pres.

OWEN SOUND, ONT.—The Owen Sound Furniture Co., Ltd., has been incorporated, capitalized at $200,000, to establish a furniture factory. Directors: R. S. Coryell, Toronto, Ont.; Gordon S. Henderson and Chas. R. Montgomery, all of Toronto.

VANCOUVER, B. C.—The Columbia River Lumber Co., 18 Hastings St., Vancouver, has been incorporated with a capital of $500,000 to manufacture and deal in lumber and wood products.

CALGARY, ALTA.—It is reported that the John Deere Plow Co. will erect a $50,000 addition at First St. East and Tenth Ave.

MONTEREY, MEX.—Albert E. Andrade, of Mexico City, will install a plant here for the manufacture of oleomargarine. Considerable machinery will be installed.

TAMPICO, MEX.—The Oklahoma Iron Works will establish machine shops here.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

*DREDGING.—Boston, Mass.—The Board of Harbor and Land Commissioners, State House, Boston, will receive bids for dredging an anchorage basin about 300 ft. × 250 ft. and 6 ft. deep at mean low water, in Weymouth, Fore River, at Houghs Neck in the City of Qunicy, until 2 p. m., July 21. The work to be done is the dredging of about 17,000 cu. yds. of material to make an anchorage basin near the inner end of the channel leading to the wharf of the Houghs Neck Steamboat Co. Frank W. Hodgon is Ch. Engr. Bd.

*DREDGING.—New London, Conn.—Bids were received as follows on July 7 by Capt. A. E. Waldron, Corps Engrs., U. S. A., New London, for dredging Saybrook Bar, Connecticut River, Conn., prices being on an estimated yardage of 165,000 cu. yds.: John

M. Gerrish, 19 7-10 cts. per cu. yd., $32,505; Norris & Cumings Dredging Co., 13.85 cts., $22,852; Maritime Dredging Co., 19 2-3 cts., $31,090; J. P. Sanderson, 16 cts., $26,400; Taylor Dredging Co., 13.8 cts., $22,770; R. G. Packard Co., 25 cts., $41,250.

ENGINE HOUSE.—Hartford, Conn.—Bids for the new fire-engine house were received by the Board of Contract and Supply on July 10, as follows: F. D. Kent, Hartford, $19,009; Thomas Malcolm, Hartford, $23,271; Garrity & McLaughlin, Hartford, $21,600; T. R. Fox & Son, Hartford, $26,117; Adams Purves, Hartford, $23,823; W. E. Caulkins & Son, Hartford, $25,395. The above bids are for the building, complete.

LUMBER, ETC.—New York, N. Y.—Bids will be received by the Board of Health, of the Dept. of Health, until 10 a. m., July 24, for furnishing and delivering timber, lumber, moulding, etc., required for the construction of additional buildings and improvements to existing buildings at the Tuberculosis Sanatorium, Otisville, Orange County, N. Y.

SHELTER AND COMFORT STATION.—New York, N. Y.—Bids were received by the Park Board, Dept. of Parks, on July 6, for furnishing all the labor and materials for the erection and completion of a shelter and comfort station in Macombs Dam Park, City of New York. All were rejected.

FIRE ALARM TELEGRAPH.—New York, N. Y.—Bids will be received by Joseph Johnson, Fire Comr., until 10.30 a. m., July 21, for furnishing all the labor and materials required for establishing and equipping an extension of the underground fire alarm telegraph on Amsterdam Ave., Broadway and Eighth Ave., north of 124th St.; for furnishing all the labor and materials required for establishing and equipping an underground extension of the fire alarm telegraph on Third and Lexington Aves., etc., south of 68th St.

✚*SUBWAY SYSTEM.—New York, N. Y.—Several contracts, is is reported, have been awarded by the Public Service Commission to the BRADLEY CONTRACTING CO., 1 Madison Ave., New York, for the proposed Tri-Borough subway. Itemized bids for this work were noted on Nov. 3, under Contract Prices.

✚PAVING PITCH.—New York, N. Y.—Bids were received on June 21 by George McAneny, Pres. Boro. Manhattan, for furnishing and delivering 1,300 tons of paving pitch. The contract has been awarded to the BARRETT MFG. CO., 17 Battery Pl., New York., at $18,070.

BATH, ETC., BUILDING.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., July 20, for all labor and materials required for the erection and completion of bath, comfort and chelter building, located in McLaughlin Park, Boro. Brooklyn, together with all the work incidental thereto.

SEAWALL, FILL.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., July 20, for completing rip-rap foundation, constructing granite ashlar and concrete sea wall and furnishing and placing earth fill back of wall, along the Shore Road, between Bay Ridge Ave. and 92d St., Boro. Brooklyn.

LUMBER.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., July 20, for furnishing and delivering lumber in parks and on parkways, Boro. Brooklyn and Queens.

COAL VAULT.—New York, N. Y.—Bids will be received by George McAneny, Boro. Manhattan, until 2 p. m., July 19, for labor and material required for the reconstruction of the coal vault in the public bath building located at 232-234 West 60th st., Boro. Manhattan.

FIRE PROTECTION.—Erie, Pa.—Bids will be received on or before July 20 by the Hammermill Paper Co., of Erie, Pa., for fire protection work, etc., for new additions now under construction. The work will require c.-i. B. & S. pipe, w.-i. pipe and automatic sprinklers. F. P. Klund, Erie, is Design. Engr. for the company. Noted on June 29.

ENGINE HOUSE.—Baltimore, Md.—The city has commissioned A. Cookman Leach, Arch., 323 North Charles St., to prepare plans and specifications for an engine house to be erected at Light and Montgomery Sts. The building is to be of brick construction, marble trim. Gas and electric lighting, plumbing and steam heat will be installed.

COAL HANDLING EQUIPMENT. — Washington, D. C.—Bids were received as follows on July 3, by the Secretary of the Interior, Washington, for the installation of coal handling machinery in the old city post-office building: C. A. Barker, Washington, $7,483; Jeffrey Mfg. Co., Columbus, Ohio, $6,500, alternate, $5,200; R. H. Beaumont & Co., Philadelphia, Pa., $5,317, alternate, $4,027; Phillips, Lange & Co., Chicago, Ill., $8,250; Link Belt Co., Philadelphia, Pa., $7,880; Guaranty Construction Co., New York, $4,534, alternate, $8,100.

✚ELECTRIC FLOATING CRANES.—Washingington, D. C.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded the contract for furnishing one electrically operated floating crane at the Boston Navy Yard and one at the Pearl Harbor Naval Station, Hawaii, to the WELLMAN-SEAVOR-MORGAN CO., of Cleveland, Ohio, at $593,000.

REMOVING ROCK. — Richmond, Va. — No bids were received on June 30 by the Commissioner in the Improvement of James River, for removing rock near the city wharf. Charles E. Bolling is City Engr.

*DREDGING.—Norfolk, Va.—Bids will be received until Aug. 2 by Lt.-Col. Mason M. Patrick, Corps Engrs., U. S. A., Norfolk, for dredging South Branch of Elizabeth River, Va.

DOCK WORK.—Norfolk, Va.—Bids were received July 3 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the renewal of Richmond's dock at the Norfolk Navy Yard, as follows: Henry Monk, Pensacola, Fla., $7,550; George Y. Alsop, First National Bank Bldg., Newport News, Va., $8,220; Sanford & Brooks Co., 24 Commerce St., Baltimore, Md., $5,955; John Monk, Seaboard Bank Bldg., Norfolk, $7,650. R. C. Kollyday is Ch. of Bureau.

PINE, LEAD, ETC.—Norfolk, Va.—Bids will be received by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., July 18, for furnishing at the navy yard, Norfolk, naval supplies, as follows: Schedule 3,734, yellow pine, mahogany; Schedule 3,737, white lead; Schedule 3,738, asbestos, plaster cement, magnesia pipe covering. Applications for proposals should designate schedule desired by number. Blank proposal furnished upon application to Navy Pay Office, Norfolk, or to the Bureau. T. J. Cowle, Paymaster-Gen., U. S. N.

*DREDGES.—Wilmington, N. C.—Bids were received on June 30 as follows by Capt Earl I. Braun, Corps Engrs., U. S. A., Wilmington, for cinstructing, complete, two wooden-hull, non-propelling, 15-in. hydraulic pipe line dredges, Neuse and Port Arthur: (a) Neuse, delivered at Newburn, N. C.; (b) Dredge Port Arthur, delivered at Port Arthur, Tex.; (c) both dredges, delivered respectively at Newburn and Port Arthur: Smith & Sons Co., Jersey City, N. J., (a) $87,000, if with B. & W. boiler or equal, $88,000; Ellicott Machine Co., Baltimore, Md., (a) $81,110, if with B. & W. boiler or equal, $81,843, (b) $84,520, if with B. & W. boiler or equal, $85,253, (c) $157,00, if with B. & W. boilers or equal, $158,466; the Norborn Engineering Co., Philadelphia, Pa., (a) $125,000, if with B. & W. boiler or equal, $126,400, (b) $132,000, if with B. & W. boiler or equal, $133,400, (c) $250,000, if with B. & W. boiler or equal, $252,800. Alternate bids were received as follows: (a) Neuse, delivered at Newburn; (b) Port Arthur, delivered at New Orleans, duplicate machinery, etc., delivered and installed complete, and same as preceding if with B. & W. boilers or equal: Ellicott Machine Co., (a) $81,110, if with B. & W. boiler, $81,843, (b) $63,000 and $63,733. Norburn Engineering Co., (a) $125,000, if with B. & W. boiler, $126,400, (b) $69,600 and $71,000. The Ellicott Machine Co. also bid to put in Heine safety marine water tube boiler for $5,000 (for each dredge) less.

METAL LATH, ETC.—Atlanta, Ga.—Bids will be received by R. V. LaDow, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing metal lath, furri corner beads and reinforcing material for ceilings, walls, floors, etc., in administration building and corridors of main cell wings, U. S. penitentiary at Atlanta, Ga. Specifications obtained from the Superintendent of Prisons.

GRAVEL. — Jacksonville, Fla. — The Duval County Commissioners, Jacksonville, will receive bids until 10 a. m., July 21, for furnishing and delivering carload lots of Georgia gravel at Broward or Duval Station, on Seaboard Air Line Ry., north of Jacksonville.

STEEL SHED. — Mobile, Ala.—Wright Smith, City Engr., it is reported, has completed plans for the construction of the steel shed on the municipal wharf from St. Anthony St. to Dauphin St., 1,340 ft. long, 72 ft. wide, and 19 ft. high.

✚PIPE, OIL.—Baton Rouge, La.—Bids were received on July 1 by the Board of Control, Baton Rouge, for furnishing and delivering at Angola 13,000 ft. of 4-in. pipe, 13,000 bbls. of fuel oil, delivered at Angola in tanks, either by boat or rail not later than Oct. 1, and 5,000 bbls. of fuel oil delivered at Hope Plantation in tank, same time. Contracts have been awarded as follows: For pipe, to the WHITNEY SUPPLY CO., at $25.14; to the STANDARD OIL CO., for oil at Angola, at 80 cts. per bbl.; to the TEXAS OIL CO., for oil at Hope Plantation, at 82½ cts. per bbl.

DRAINAGE IMPROVEMENT. — Tallulah, La.—The Morgan Engineering Co., of Memphis, Tenn., is completing plans for the improvement of Drainage District No. 2 of Madison Parish, La. This district includes 50,000 acres of bottom land across the river from Vicksburg. About 40 dredge ditches will be required at a cost of about $200,000. About two years will be required to complete the work.

BRUSH, ETC.—Memphis, Tenn.—Award of contract for furnishing brush and poles for revetment work has been recommended to the Tennessee Contracting Co., at $1.90 per cord. Bids were opened by the Mississippi River Commission, First and Second Districts, on July 1, at the office of Maj. Clarke S. Smith, Corps Engrs., U. S. A., Memphis.

*DITCH.—Ada, Ohio.—Bids will be received until noon, July 31, by the County Auditor of Hardin County, Kenton, Ohio, for the construction of the Ada sewer ditch, 4,250 ft. of 48-in. brick sewer, 3,260 ft. of 30-in. sewer, and 900 ft. of 18-in. sewer.

STATUE.—Fort Wayne, Ind.—The local G. A. R. post is preparing to receive bids for the erection of an equestrian statue in memory of Gen. Lawton.

✚DITCH.—LaFayette, Ind.—The WOLCOT DREDGING CO., LaFayette, has been awarded a contract for the construction of a ditch 36 miles long in Southern Illinois. Contract price, $80,000. It will require two years to complete the work.

RETAINING WALLS.—Elkhart, Ind.—B. O. Bachelder, Audr., Elkhart County, Elkhart, will receive bids for the construction of two retaining walls for approach to Bristol Bridge.

FOUNTAIN.—South Bend, Ind.—Mrs. J. B. Reynolds, of South Bend, is asking for bids for the erection of a fountain of marble and granite in the south end.

MONUMENT,—Vincennes, Ind.—The Commissioners of Knox County, Vincennes, will receive bids until 10 a. m., Aug. 19, for the construction and erection of a soldiers' monument. John T. Scott is County Audr.

✚DITCH. — Petersburg, Ind. — The contract for the construction of the Davidson ditch, 4½ miles long, in Madison and Clay Townships, has been awarded to HOWARD G. SMITH, of Huntingburg, Ind., at 9½ cts. per cu. yd., or about $11,000.

DRAIN.—Crawfordsville, Ind.—Bids will be received by Milton L. Nees, County Drainage Comr., until July 15, for constructing a drain 4,809 ft. long, all tiled, except 776 ft. at the outlet of the ditch, which is to be ap open drain.

DREDGING.—Grand Rapids, Mich.—Bids were received on June 28 by Col. C. H. Richie, Corps Engrs., U. S. A., Grand Rapids, for dredging the Saugatuck Harbor and Kalamazoo River: (a) price per cu. yd.; (b) totals: Great Lakes Dredge & Dock Co., Chicago, (a) 17½ cts. and 20 cts., (b) $22,750 and $22,000; Fitzsimons & Connell Dock & Dredge Co., Chicago, (a) 18½ cts., (b) $24,050; East Shore Dredging Co., Muskegon, (a) 19 cts., (b) $24,700; Northern Dredge & Dock Co., Duluth, Minn., (a) 19½ cts., (b) $25,350.

*LOCK MASONRY. — Detroit, Mich. — Bids were received on June 29 by Col. C. McD. Townsend, Corps. Engr., U. S. A., Detroit, for the construction of lock masonry at Sault Ste. Marie, Mich. The bids follow: (a) excavation, 2,000 cu. yds.; (b) concrete, Class A, 138,000 cu. yds.; (c) Class B, 35,000 cu. yds.; (d) drilling rock for anchor rods, 26,000 lin. ft.; (e) cement, 215,000 bbls.; (f) 385 square cold-twisted steel bars; (g) 215 anchor rods in rock, with nuts and square plate washers; (h) 150 wire cloths; (i) 35 miscellaneous iron and steel castings; (j) 30 sheet lead stop waters; (k) totals. Great Lakes Dredge & Dock Co., Chicago, Ill., (a) $2, (b) $3.99, (c) $3.90, (d) 25 cts., (e) $1.35, (f) $65, (g) $85, (h) $89, (i) $75, (j) $150, (k) $1,054,795. The Breakwater Co., Philadelphia, Pa., (a) $2.50, (b) $5.30, (c) $5.73, (d) 15 cts., (e) $1.24, (f) $55, (g) $80, (h) $98.45, (i) $42.25, (j) $146.30 (k) $1,266,460. MacArthur Bros. Co., Chicago, (a) $1.65, (b) $5.40, (c) $5.75, (d) 33 cts., (e) $1.44, (f) $78, (g) $100, (h) $100, (i) $75, (j) $225, (k) $1,343,835. W. T. Newman Co. and John P. Conrick, Chicago, (a) $3, (b) $5.49, (c) $6.90, (d) 99 cts., (e) $1.50, (f) $63, (g) $85, (h) $95, (i) $80 (j) $280, (k) $1,421,340. Bates & Rogers Construction Co., Chicago, (a) $5, (b) $4.50, (c) $5.50, (d) 25 cts., (e) $1.55, (f) $160, (g) $100, (h) $150, (i) $250, (j) $300,

(k) $1,263,500. Pearsons & Sons, Inc., New York, (a) $4.60, (b) $4.50, (c) $8.60, (d) $5.65; W. J. Newman Co. and John P. Conrick, Chicago, (a) $5.14, (b) $6.55; Bates & Rogers Construction Co., Chicago, (a) $4.10, (b) $5.15; S. Pearson & Sons, Inc., (a) $4.05, (b) $8.25.

*CHANNEL EXCAVATION.—Chicago, Ill.—Bids will be received by I. J. Bryan, Clk. Sanitary District of Chicago, American Trust Bldg., Chicago, until noon, Aug. 10, for excavation and collateral work on Contract Section 4 of the Calumet Sag Channel of Sanitary District of Chicago, in the Township of Palos, County of Cook, Ill., The approximate quantities for the comparison of bids are: (a) 780,000 cu. yds. of glacial drift; (b) 121,000 cu. yds. of rock excavation; (c) 37,000 sq. yds. of rip-rap slope. Specifications and plans may be obtained upon application at the office of the district.

DITCHES.—Elk Grove, Ill.—Bids will be received until July 15 by the Commissioners of Drainage District No. 1, Township of Elk Grove, at the residence of Herman Schwake, Elk Grove, for digging a main ditch about 6¾ miles and lateral ditches about 4½ miles in Drainage District No. 1. H. E. Emerson is Engr., 118 Chamber of Commerce, Chicago, Ill.

✚NEW CHANNEL.—Bedford, Iowa.—Bids were received on July 3 for the construction of a new channel for the West 102 River Drainage District, No. 1, 26,052½ ft. long, requiring 248,421 cu. yds. of excavation, consisting of loam, silt and clay. The contract has been awarded to CHAPMAN BROS., at 6.98 cts. per cu. yd. W. L. Holbrook is Engr.; C. A. Hall is County Audr.

✚DRAINAGE DISTRICT. — Spirit Lake, Iowa.—The contract has been awarded by the County to the WORTHINGTON CEMENT TILE CO., of Worthington, Minn., for Drainage District No. 15 at $12,877. John S. Blair is County Audr.

✚DITCH.—Jackson, Minn.—Bids were received on June 23 by P. D. McKellar, County Audr., for constructing Judicial Ditch No. 3, about 61,358 cu. yds. of excavation and clearing away waste banks, 19,920 cu. yds. The contract has been awarded to the STANDARD DRAINAGE CO., of Windom, Minn., at $13,000.

✚DITCH. — St. Cloud, Minn. — JOSEPH KUTZMAN has been awarded the contract for the construction of Ditch No. 31 in the town of Lynden, at 12½ cts. per cu. yd.

✚DITCH.—Fairmont, Minn.—Bids were received on June 30 by the county for the construction of County Ditch No. 24, including about 54,725 ft. of 6 to 24-in. tile. The contract has been awarded to L. P. AXELSON, of Clear Lake, Iowa, at $21,520. Bids were also received for the construction of County Ditch No. 25, about 29,625 ft. of 6 to 22-in. tile. The contract wasa warded to SHERBURN CEMENT TILE CO., of Sherburn, at $8,998.

(Continued on page 22.)

CONTRACT PRICES.

*DIKE.—Thistle, Utah.—Bids were received on June 19 by the U. S. Reclamation Service, Provo, Utah, for the construction of a dike about 35 miles northeast of Thistle, from the following: (A) Maney Bros. & Co., Boise, Idaho; (B) W. O. Morrison ,Denver, Colo.; (C) Ely Construction Co., Springville, Utah; (D) P. J. Moran, Salt Lake City, Utah:

DIKE, THISTLE, UTAH.

	A.	B.	C.	D.
88,000 cu. yds. earth embankment	$0.44	$0.37¼	$0.41	$0.67
650 cu. yds. excavation in trench for corewall	1.00	1.33⅓	1.00	.74
1,700 cu. yds. concrete in corewall	13.00	11.40	12.50	18.00
1,100 cu. yds. rock fill in berm	3.00	3.85	3.00	2.60
2,700 cu. yds. rock fill in trench	3.00	2.65	3.00	2.40
12,100 cu. yds. paving on upstream slope	4.00	2.99	3.25	3.50
1,400 lin. ft. drain	.70	.80	.85	.85
95,000 lbs. steel	.01	.01¾	.04	.07
1.58 acres soil dressing on downstream slope	664.50	490.00	850.00	700.00
1,000 cu. yds. crushed stone on roadway	3.00	2.85	3.00	3.70
1,000 ft. lumber	45.00	55.00	50.00	84.00
Totals	$127,250	$107,091	$121,558	$158,397

55 cts., (e) $2, (f) $65, (g) $90, (h) $1.05, (i) $170, (j) $210, (k) $1,447,875. Alternate bids in concrete were received as follows: (a) Class C for Class A, 120,000 cu. yds.; (b) Class D for Class B, 10,000 cu. yds. Great Lakes Dredge & Dock Co., Chicago, Ill., (a) $3.90, (b) $3.90; The Breakwater Co., Philadelphia, Pa., (a) $5.18, (b) $5.38; McArthur Bros. Co., Chicago, (a) $5.30, (b)

PAVING.—Plainfield, N. J.—Bids for macadamizing various streets were received by the Common Council on June 26, as follows: (A) C. W. Tryon; (B) Willard S. Konover; (C) Atkinson Construction Co.; (D) Daniel Donovan; (E) Mobus & Burke; (F) John McNabb; (G) Chas. H. Peckworth; (H) Osborne & Marselli Co.; (I) Liddle & Pfeiffer; (J) Continental Public Works Co.

PAVING, PLAINFIELD, N. J.

West Fifth St.	A	B	C	D	E	F	G	H	I	J
3,406 sq. yds. macadam paving	$0.75	...	...	$0.59	$0.50	$0.73	$0.99	$0.63	$0.63	$0.73
2,300 cu. yds. excavation	.33	...	...	.30	.30	.34	.40	.38	.45	.39
West Sixth St.										
3,400 sq. yds. macadam paving	.74	...	...	.59	.52	.73	.99	.63	.63	.73
700 cu. yds. excavation	.40	...	...	.30	.30	.34	.40	.38	.45	.39
East Sixth St.										
5,556 sq. yds. macadam paving	.74	...	...	.59	.52	.73	.99	.63	.68	.76
200 cu. yds. excavation	.50	...	...	.40	.45	.34	.40	.38	.50	.45
Central St.										
3,070 sq. yds. macadam paving	.74	...	...	.59	.52	.73	.90	.63	.68	.73
100 cu. yds. excavation	.50	...	...	.50	1.00	.34	.40	.38	.50	.40
Leland Ave.										
6,987 sq. yds. macadam paving	.76	...	...	.59	.52	.73	.90	.63	.68	.73
2,400 cu. yds. excavation	.50	...	...	.30	.10	.45	.40	.38	.45	.49
2,000 lin. ft. drains	.35	$0.30	$0.29	.15	.25	.28	.21	.40	.38	.40
East Seventh St.										
7,673 sq. yds paving										
Bermudez	1.21	...	.92	.95	.82	.98	1.38	1.02	.98	1.08
Pioneer	1.19	...	.95	1.02	.79	.98	1.36	.98	.98	1.08
Headley	1.23	...	.96	1.02	.93	.98	1.40	1.02	.98	1.08
Tarvia X	1.21	...	.95	.88	.77	.98	1.34	.95	.93	1.01
Texaco	1.21	...	.95	.92¼	.82	...	1.36	1.00	.93	1.04
8,000 cu. yds. excavation	.60	.50	.47	.40	.45	.50	...	.33	.40	.54
1,000 lin. ft. drains	...	...	...	...	...	...	...	...	...	...

MISCELLANEOUS.

(Continued from page 21.)

*REVETMENT. — Kansas City, Mo. — Bids were received as follows on July 3 by Maj. Edward H. Schulz, Corps. Engrs., U. S. A., Kansas City, for constructing standard revetment on the Missouri River at Wayne City and Liberty Bend: Farney & Baker, Kansas City, Wayne City, 15,000 ft. standard revetment per specifications, $135,000; Liberty Bend, 12,000 ft. standard revetment per specifications, $105,000; material in place, yellow pine piles, 35 cts.; cottonwood piles, 30 cts.; stone, $1.85; willow brush, $2.30. Neal & Pickens, Kansas City, Liberty Bend revetment, $107,280; material in place, 35 cts., 30 cts., $1.50 and $6. Rust, Swift & Co., St. Louis, Mo., revetment at Wayne City, $121,350, at Liberty Bend, $97,080; material in place, 30 cts., 20 cts, $1.50 and $2. Dewitt & Shobe, Glasgow, Mo., revetment at Wayne City, $142,200; at Liberty Bend, $106,080; material in place, 30 cts., 20 cts., $1.50 and $2.50. J. W. McMurray Construction Co., Kansas City, revetment at Wayne City, $138,750; at Liberty Bend, $100,560. The bid of Rust, Swift & Co., of St. Louis, has been recommended for award.

DRAINAGE DISTRICT IMPROVEMENT.—Osceola, Ark.—Bids will be received in three or four months for the improvement of Drainage District No. 9, Mississippi County. About 14,500,000 cu. yds. of earth are to be removed. Estimated cost, $1,000,000. The Morgan Engineering Co. is Engr., Memphis, Tenn. Noted on June 29.

SHIP CHANNEL. — Brownsville, Tex.—A local organization has been effected here known as the Brownsville Waterways Association, it is reported, for the purpose of creating a waterways district and causing bonds for about $800,000 to be issued to construct a ship channel between the Gulf of Mexico and Brownsville, a distance of about 22 miles. The movement is as yet in its preliminary stage and it will probably be some time before an election is called in the proposed district to vote upon the proposition. It is claimed that a channel 10 ft. deep and 75 ft. wide can be constructed for the aforementioned sum. This would serve as the basis for further improvement on the part of the Federal Government by which Brownsville would be made a deep water port. The canal would also be valuable as a drainage outlet for a large area of land that is now unavailable for agricultural purposes.

DRAINAGE DISTRICT. — Hidalgo, Tex. — Steps have been taken by the Commissioner's Court of Hidalgo County to create a drainage district of about 90,000 acres lying between Donna and the Cameron County line. An election will be called later to vote on the proposition of issuing $150,000 of bonds in the district to carry out the improvement plans. It is proposed to construct a wide channel by which the flood waters may be carried off.

GRAIN ELEVATOR.—Brownsville, Tex.—M. H. Smith, of Fort Worth, Tex., will erect a grain elevator here with a capacity of 12,500 bushels.

LEVEE.—Texarkana, Tex.—About 45 miles of levee along the west bank of the Red River is to be built by Levee District No. 2 of Miller County, Ark. About 100,000 acres of river bottom land will be reclaimed, at a cost of somewhat more than $300,000. The levee will begin at the Texas-Arkansas state line, and will continue south to a point a few miles below Garland. Not only wil the agricultural lands be redeemed, but the railroads through the bottoms, which have received very great damage during overflows, will be relieved. The Morgan Engineering Co., of Memphis, Tenn., has a force of engineers in the field making a survey for the levee location, and is making examinations to determine what effect the proposed levee will have on flood stages in Red River. A levee district in Bowie County, Tex., may co-operate in the construction, by extending the levee into Texas. Bids will probably be called for within the next two months.

*JETTY WORK.—Dallas, Tex.—Bids were received July 5 by Capt. T. H. Jackson, Corps Engrs., U. S. A., Dallas, for jetty work at Sabine Pass, Tex., for furnishing and placing approximately 26,000 tons of random stone in repairing both east and west jetties: (a) per ton, (b) totals. Charles Clarke & Co., Galvestton, (a) $3.73, (b) $96,980; David M. Picton & Co., Galveston, (a) $3.60, (b) $93,600; T. S. Reed, Beaumont, Tex., (a) $2,875, (b) $74,750.

DREDGING, COFFER DAM, ETC.—Seattle, Wash.—Bids for dredging and construction of a coffer dam and excavation of a lock pit in the enrance to Salmon Bay, Wash., will be received until noon, July 31, by Maj. C. W. Kutz, Corps Engrs., U. S. A., Seattle.

FAN ROOM EQUIPMENT.—San Quentin, Cal.—The State Architect, Sacramento, Cal., is planning for the instalation of fan-rom equipment in the State Prison here. Estimated cost, $12,000.

+TOWERS.—Long Beach, Cal.—The Southern California Edison Co. has awarded a contract to the SECURITY CONSTRUCTION CO., of Los Angeles, Cal., for the construction of two steel transmission line towers, one at each side to channel of the inner harbor, at $13,973.

DREDGING.—Los Angeles, Cal.—The following bids were opened by Capt. Charles L. Leeds, Corps. Engrs., U. S. A., Central Bldg., for dredging in Los Angeles Harbor: Standard American Dredging Co., Merchants' Exchange Bldg., San Francisco, Cal., 41.5 cts. per cu. yd.; San Francisco Bridge Co., Monadnock Bldg., San Francisco, 43.4 cts.; W. R. Harris, 48 cts.; Fred Franks, 49.75 cts. The area to be dredged is 200 ft. x 5,600 ft., requiring the removal of 350,000 cu. yds. The sum of $275,000 is available.

+STEEL & OIL RIVETS.—Los Angeles, Cal.—The contract has been awarded to the TREADWELL CONSTRUCTION CO., of Midland, Pa., by the Board of Public Works for furnishing f. o. b., Midland, steel and rivets for five riveted steel siphons for the Owens River Aqueduct, at [illegible]3,000. List of bidders noted on June 29.

DREDGING. — San Francisco, Cal. — Bids for dredging in Oakland Harbor, Cal., will be received until noon July [illegible] by Col. John Biddle, Corps Engrs., U. S. A., Custom House, San Francisco.

TUNNEL.—San Francisco, Cal.—The Street Committee of the Board of City Supervisors, it is reported, has adopted an ordinance providing for the construction of the Stockton St. tunnel. Marsden Manson is City Engr.

ALARM SYSTEMS.—San Jose, Cal.—The citizens have voted in favor of issuing $377,000 of bonds for municipal improvements, including in the installation of a new fire-alarm and police-patrol flashlight system. Charles Piefer is City Engr.

*VACUUM-CLEANING SYSTEM.—Los Angeles, Cal.—Bids will be received until 3 p. m., Aug. 21, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the installation of a vacuum-cleaning system in the U. S. Court House, Post Office, etc., at Los Angeles.

PARK.—Redlands, Cal—Wilbur D. Cook, Landscape Arch., Wright and Callender Bldg., Los Angeles, Cal., is preparing plans for a park to be constructed at Redlands to be known as Sylvan Park. The park will comprise 20 acres.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
7-24*	Dam, Waynesville, N. C. (P. & S.)	6-29
7-24*	Bridge, Bangor, Me. (P. & S.)	7-13
8-12	Wharf, pipe line, Cuba (S.)	7-13

Light, Heat and Power Plants.

Bids close.		Noted in issue of
7-14	Boilers and accessories, New York, N. Y.	7- 6
7-14	Boiler plant, etc., Sykesville, Md.	7-13
7-15	Engine and generator, Milwaukee, Wis.	7-13
7-15	Electrical equipment, Prince Albert, Sask.	7- 6
7-15	Conduits, wiring and lighting fixtures, Philadelphia, Pa.	6-15
7-17	Elec. equip., New York	7-13
7-18	Elec. machinery, Monett, Mo.	7-13
7-20	Cables, New York	7-13
7-20	Power plant work, New York	7-13
7-20	Feeder system, New York	7-13
7-24	Electrical apparatus, Moose Jaw, Sask.	6-29
7-24	Heating and vent., New York	7-13
7-25	Heating plant, Denbigh, N. Dak.	7- 6
7-25	Dam, Lexington, Va.	7-13
7-27	Steam boilers, New York, N. Y.	7- 6
8- 1	Electric railway, Brantford, Ont.	6-29
8-31	Generator sets, Los Angeles, Cal.	7-13
1-30, 1912	Power generating and pumping plants, Australia (Foreign).	6-15

Bridges.

Bids close.		Noted in issue of
7-14	Bridge, Middlebourne, W. Va.	7-13
7-15	Bridges, Newcastle, Ind.	7-13
7-15*	Bridge, Massena, N. Y.	6-29
7-17	Bridges, Mankato, Minn.	6-22
7-17	Bridge, McElhattan, Pa.	6-29
7-17*	Bridge, Fitchburg, Mass.	6-29
7-17*	Bridge, Baltimore, Md.	7- 6
7-17	Bridge, Sharpstown, Md.	7- 6
7-17	Bridge, Dinwiddie, Va.	7-13
7-17	Bridges, Columbus, N. Dak.	7-13
7-18	Bridge, Worden, Ill.	7-13
7-18	Bridge, Marshall, Minn.	7-13
7-19	Bridge, Cambridge, Ill.	7-13
7-19	Bridge, Earlville, Ill.	7-13
7-19	Bridge work, Cleveland, Ohio	7- 6
7-19	Bridges, Fargo, N. Dak.	7- 6
7-19*	Superstructure, Cincinnati, Ohio.	6-29
7-20	Bridge, Ottawa, Ill.	7- 6
7-20*	Bridge, Blairsville, Va.	7-13
7-22	Bridge, Amboy, Ill.	7-13
7-22	Bridges, Ventura, Cal.	7-13
7-22	Bridges, De Witt, Ark.	7- 6
7-24	Bridge, Reno, Nev.	7-13
7-24	Bridges, Beatrice, Neb.	7-13
7-24*	Bridge, Bangor, Me.	7-13
7-25	Bridges, Albany, N. Y.	6-22
7-26	Bridge, South Bend, Ind.	7- 6
7-26	Culvert, Cleveland, Ohio	7-13
7-28	Bridge work, Cincinnati, Ohio	7-13
7-29	Bridge, Pittsburg, Pa.	7-13
8- 1*	Bridge, Shreveport, La.	7-13
9- 1	Bridges, Siam (Foreign)	6-29
9- 6*	Bridge, Tampa, Fla.	7-13

Buildings.

Bids close.		Noted in issue of
7-13	School, Oak Harbor, Ohio	7-13
7-14	School, Ft. Atkinson, Wis.	7-13
7-14*	Hospital, Fort Strong, Mass.	6-29
7-14	Town hall, Nahant, Mass.	7- 6
7-15	School, Athens, Ohio	7- 6
7-15*	U' S. post-office, Cordele, Ga.	6- 8
7-15	Court-house, Mansfield, La.	6-29
7-15	School, Alice, Tex.	7-13
7-15	School, Pinopolis, S. C.	7-13
7-17	School, Marion, Iowa	7-13
7-17	Public building, Rock Island, Que.	7-13
7-17	U. S. post-office, Ironton, Ohio	6-15
7-17	School, Lewistown, Mont.	7- 6
7-18	Cement bldg, Key West, Fla.	7- 6
7-18	School, Lowellville, Ohio	7- 6
7-18	Hospital, Canton, Ohio	6-29
7-19	School, Whippany, N. J.	6-29
7-20	U. S. post-office, Waterville, Me.	6-15
7-20	School, Moville, Iowa	6-29
7-20	School, Mt. Vernon, Iowa	7- 6
7-20	School, Iroquois, S. Dak.	7-13
7-20	Refrigerating plant (Mfg. Plants) Boston, Mass.	7-13
7-21	School, Athens, Ohio	7-13
7-21*	U. S. post-office, Alpena, Mich.	6-22
7-22	Lodge building, Carnegie, Pa.	7-17
7-24	U. S. post office, Bristol, Conn.	6-22
7-24	City hall, Oskaloosa, La.	7- 6
7-24	Additions, etc., to school, New York	7-13
7-25	U. S. post-office, Schenectady, N. Y.	6-22
7-25	Dormitory, Pierre, S. Dak.	7-13
7-26	School, Mason City, Iowa	7-13
7-27	Court house, Sidney, Neb.	6-15
7-27*	Group of buildings, Olympia, Wash.	5-11
7-27	School, Jud, N. Dak.	7- 6
7-27	Capitol building, Boise, Idaho	7- 6
7-28*	U. S. post-office, Rock Springs, Wyo.	6-22
7-29	Infirmaries and pavilions, Lima, Ohio	7- 6
7-31	U. S. post-office, Chicago Heights, Ill.	7- [illegible]
8- 1	U. S. post-office Huron, S. Dak.	6-29
8- 1	Pavillion, Wilberforce, Ohio	7-13
8- 1	School, Kingsley, Iowa	7-13
8- 2	U. S. post office, Great Bend, Kan.	6-29
8- 3	U. S. post-office, Princeton, Ind.	7- 6
8- 4	U. S. post-office, Sulphur Springs, Tex.	6-29
8- 7*	Memorial Institute, Richmond, Va.	7-13

Water-Works.

Bids close.		Noted in issue of
7-14	Water mains, New York	7- 6
7-14	Water-works, Flora, Ill.	7- 6
7-14	Reservoir, Cherokee, Iowa	7- 6
7-14*	Pumps, Richmond, Va.	7- 6
7-14	Water mains, Delavan, Wis.	7-13
7-14	Pumping unit, Andover, Ohio	7-13
7-14	Water pipe, Boston, Mass.	7-13
7-15	Water system, Waynoka, Okla.	6-29
7-16	Laying pipe, Macon, Ga.	6-22
7-17*	Reservoir, Americus, Ga.	7- 6
7-17*	Force main, Columbus, Ohio	7- 6
7-17	Water-works, Mankato, Minn.	7-13
7-17	Pump, Madison Lake, Minn.	7-13
7-17*	Intake pipe, Toronto, Ont.	7-13
7-17	Wells, Yonkers, N. Y.	7-13
7-18	Water pipes, Berwyn, Ill.	7-13
7-18	Water system, Ipswich, S. Dak.	7- 6
7-19	Water-works, New Lisbon, Wis.	7- 6
7-19	Water-works, impvts., Easton, Minn.	7-13
7-20	Pumps, Tavistock, Ont.	7-13
7-22	Well, Glen Rock, Pa.	7-13
7-24	Water-works, Oak Harbor, Ohio	7-13
7-24	Water main, Yorktown, Sask.	7-13
7-24*	Pump, etc., Red Bank, N. J.	7-13
7-24	Water main, Beveridge, Minn.	7-13
7-24	Franchise, Los Angeles, Cal.	6-29
7-24*	Boilers, Clarksburg, W. Va.	6-29
7-24	Valves, Burnaby, Ont.	6-29
7-25	Water main, Cleveland Heights, Ohio	7- 6
7-25*	Reservoir, Muskogee, Okla.	7-13
7-26	Reservoir, Herrin, Ill.	7-13
7-27	Water-works, McKenzie, Tenn.	7- 6
7-29*	Sterilization plant, etc., Suffern, N. Y.	7-13
8- 1	Steel tanks, etc., Cherry, Ill.	7-13
8- 1	Water-works, Thomaston, Ga.	7-13
8- 5	Irrigation system, Manteca, Cal.	7-13

Sewers.

Bids close.		Noted in issue of
7-13	Sewers, Susquehanna, Pa.	7-13
7-13	Sewers, Hastings, Pa.	7-13
7-14	Electrical sewerage pumps, National Soldiers' Home, Va.	6-29
7-15*	Sewer pipe, etc., Marietta, Okla.	7- 6
7-17	Sewers, Columbus, Ohio	7- 6
7-17*	Sewer, Port Washington, Wis.	7-13
7-18*	Sewers, Ely, Minn.	7- 6
7-18	Sewers, Summit, N. J.	7- 6
7-19	Drain line, New York, N. Y.	7-13
7-19*	Sewers, Pittsfield, Mass.	7-13
7-19*	Sewers, Hoisington, Kan.	7-13
7-20	Sewers, Columbus, Ohio	7-13
7-20	Sewers, Bloomington, Ill.	7-13
7-20	Sewers, New York, N. Y.	7-13
7-25	Sewers, Cleveland Heights, Ohio	7-13
7-25*	Sewers, Mukogee, Okla.	7-13
7-26	Sewer pipe, Columbus, Ohio	7- 6
7-29	Sewers, Lake Forest, Ill.	6-29
7-31*	Sewers, Harrisburg, Pa.	7-13
8- 1	Sewage plants, Ligonier, Pa.	7-13
8-10*	Sewers, Nashvile, Tenn.	6-29
9-11*	Sewers, New Orleans, La.	7-13

Streets and Roads.

Bids close.		Noted in issue of
7-14	Paving, Rutherford, N. J.	7-13
7-15	Sidewalks, Whitewood, Sask.	7-13
7-15*	Paving, etc., Wilmington, N. C.	6-15
7-15	Sidewalk, Oakley, Ohio	6-29
7-15	Gravel road, Luther, Mich.	6-29
7-15	Paving, Bonham, Tex.	6-29
7-17	Grading, St. Louis, Mo.	6-29
7-17	Paving, etc., Rhinelander, Wis.	6-29
7-17*	Paving, etc., Westfield, N. J.	6-29
7-17	Roads, Marion, Ind.	7- 6
7-17	Paving, Boulder, Colo.	7- 6
7-17	Sidewalks, Columbus, Ohio	7-13
7-17	Road, Colfax, Wash.	7-13
7-17	Sidewalk, Albert Lea, Minn.	7-13
7-17	Macadamizing, etc., Springfield, Mass.	7-13
7-17	Street paving, Boston, Mass.	7-13
7-18	Concrete paving, Shenandoah, Iowa	7-13
7-18	Road improvment, Marshall, Minn.	7-13
7-18	Street paving, Waterbury, Conn.	7-13
7-18	Repaving, etc., New York, N. Y.	7-13
7-18	Paving, Newton Falls, Ohio	7- 6
7-18	Road, Marysville, Ohio	7- 6
7-19	Resurfacing, Camden, N. J.	7- 6
7-19	Paving, etc., New York, N. Y.	7-13
7-20	Paving, New York, N. Y.	7-13
7-20	Repairing pavement, New York, N. Y.	7-13
7-20	Street improvement, Towson, Md.	7-13
7-20	Paving, etc., Johnson City, Tenn.	6-29
7-20	Roads, Marysville, Ohio	6-29
7-21	Road, Decatur, Ind.	7- 6
7-21	Paving, etc., Jacksonville, Fla.	7-13
7-22	Gravel road, Terre Haute, Ind.	7-13
7-24	Grading, etc., Minneapolis, Minn.	7-13
7-24*	Paving, Bemidji, Minn.	7-13
7-25*	Paving, Newburgh, N. Y.	7-13
7-26	Street improvement, Hoboken, N. J.	7-13
7-26*	Paving, etc., Key West, Fla.	7- 6
7-26	Sidewalk, Columbus, Ohio	7- 6
7-28	Street improvements, Wapakonta, Ohio	7-13
7-28	Gravel road, Rushville, Ind.	7-13
7-28	Street improvement, Danville, Ind.	7-13
7-30	Pavement, Welland, Ont.	7-13
7-31	Grading and macadamizing, Bowling Green, Ohio	7-13
7-31*	Paving, etc., Woodstown, N. J.	7- 6
7-31	Grading, etc., Bowling Green, Ohio	7- 6
8- 1	Highways, New Orleans, La.	7- 6
8- 1	Street paving, Lafayette, Ind.	7-13
8- 5	Roads, Marysville, Ohio	6-29
8- 5	Paving, Bowerston, Ohio	7- 6
8- 7	Gravel roads, Liberty, Ind.	7-13
8- 8	Gravel road, Vincennes, Ind.	7-13
8- 9*	Road improvement, Bridgeton, N. J.	7-13
8-18	Street improvement, Cleveland, Ohio	7-13

Miscellaneous.

Bids close.		Noted in issue of
7-14	Gravel, broken stone, New York	7- 6
7-14	Ditch, Maryborough, Ont.	7-13
7-15	Drain, Crawfordsville, Ind.	7-13
7-15	Ditches, Elk Grove, Ill.	7-13
7-15	Ditch, Crookston, Minn.	7- 6
7-15	Wireless telegraph station, Sault Ste. Marie, Ont.	7- 6
7-15*	Iron and steel, Dallas, Tex.	6-15
7-15	Station building, Charleston, S.C.	6- 1
7-15	Stone jetty, Sandusky, Ohio	6-22
7-15	Masonry wall, New Castle, Ind.	6-29
7-15	Ditches, Crowley, La.	6-29
7-16*	Dredging, Portland, Me.	6-22
7-17*	Dredging, Jacksonville, Fla.	6-22
7-17*	Dredging, Newport, R. I.	6-22
7-17*	Dredging, Portland, Me.	6-15
7-17	Excavation, Orlando, Fla.	6-29
7-17	Sea wall, Toronto, Ont.	7- 6
7-17	Lockkeepers' houses, Wheeling, W. Va.	6-29
7-17	Iron railings, New York, N. Y.	7- 6
7-18	Fire station, Connelsville, Pa.	7- 6
7-18	Iron stairway, etc., Washington, D. C.	7- 6
7-18	Steel rails, Panama. (U. S. Poss.)	6-15
7-18	Pinehead, etc., Norfolk, Va.	7-13
7-19	Coal vault, New York	7-13
7-19	Metal culverts, Fargo, N. Dak.	6-29
7-19	Conduit, Washington, D. C.	6-29
7-20	Pier and sheds, Halifax, N. S.	6-15
7-20	Drainage canal, Merigold, Miss.	7- 6
7-20	Bath, etc., building, New York	7-13
7-20	Sea wall, fill, New York	7-13
7-20	Lumber, New York	7-13
7-20	Fire protection, Erie, Pa.	7-13
7-21	Gravel, Jacksonville, Fla.	7-13
7-21*	Dredging, Boston, Mass.	7-13
7-21	Fire alarm telegraph, New York	7-13
7-24	Steel flat cars, Panama (U. S. Poss.)	7-13
7-24*	Dam, Waynesville, N. C.	6-29
7-24	Steel pipe, Burnaby, Ont.	6-29
7-24	Tugboat, Brazil (Foreign)	6-29
7-24	Dredging, Los Angeles, Cal.	6-29
7-24	Spillway gates and caissons, Panama (U. S. Poss.)	6-15
7-24	Dredging, San Francisco, Cal.	7- 6
7-24	Lumber, etc., New York	7-13
7-25*	Channel work, Newport, R. I.	6-29
7-25*	Barge canal work, Albany, N. Y.	6-29
7-25*	Cement, Reading, Pa.	7- 6
7-26*	Steamboats, St. Louis, Mo.	6-29
7-26*	Stone, Savannah, Ga.	6-29
7-26	Fountain work, Washington, D. C.	7- 6
7-26	Dredging, Seattle, Wash.	7- 6
7-27*	Removing rock, San Francisco, Cal.	7- 6
7-27	Metal lath, etc., Atlanta, Ga.	7-13
7-28	Dredging, San Francisco, Cal.	7-13
7-28	Lumber, Memphis, Tenn.	7- 6
7-31	Dredging, cofferdam, etc., Seattle, Wash.	7-13
7-31*	Sewer ditch, Ada, Ohio	7-13
8- 1	Steam lighters, Brazil (Foreign)	6-29
8- 1*	Steel, etc., Detroit, Mich.	6-29
8- 1	Steamers, Argentine (Foreign)	6-15
8- 1	Railway, Ontario (Rys.)	6- 8
8- 1	Railway, Ottawa, Ont.	6-22
8- 1*	Drains, Elkhorn, Wis.	7- 6
8- 2*	Dredging, Norfolk, Va.	7-13
8- 3*	Shore revetment, Jacksonville, Fla.	7- 6
8- 4*	Stone dike, Galveston, Tex	7- 6
8- 5*	Levee, East St. Louis, Ill.	7- 6
8- 7	Torpedo-boat destroyers, Washington, D. C.	6- 8
8- 7*	Material for intake bridges, etc., Panama (U. S. Poss.)	7-13
8- 8	Telegraph cable, Australia (Foreign)	6-29
8-10	Harbor works, St. John, N. B.	6-22
8-10*	Channel excavation, Chicago, Ill.	7-13
8-12	Wharf trestle, Cuba (U. S. Poss)	7-13
8-14	Electric plant, Australia (Foreign)	6-29
8-19	Monument, Vincennes, Ind.	7-13
8-21*	Vacuum cleaning system, Los Angeles, Cal.	7-13
9- 1	Submarine boats, Wash., D. C.	6-29
9- 8*	Breakwater construction, Hawaii (U. S. Poss.)	7-13

Examinations.

Examination date.		Noted in issue of
7- 8	Elec. Engineer, Albany, N. Y.	6-15
7-17	Junior Mechan. Draftsman, New York	6-15
7-19	Mechanical Draftsman, Washington, D. C.	6-15
7-19	Topographical Draftsman New York	6- 15
7-19	Laboratory Assistant, Wash., D.C.	6-29
7-20	Mechanical Engineer, New York	6-15
8- 1	Chemist, Wash., D. C.	6-29
8- 5	Associate Statistican, Washington, D. C.	7- 6
8- 9	Aid, Washington, D. C.	7-13
8- 9	Assistant Engineer in Forest Products, Washington, D. C.	7-13
8-11	Asst. Engr. on Pitometer, etc., work, New York, N. Y.	7- 6

DITCH.—Maryborough (Moorefield post-office) Ont.—Bids will be received by W. W. Scott, Township Clk., until 2 p. m., July 14, for the construction of Municipal Drain No. 1 in the Township of Maryborough, containing about 33,[illegible] cu. yds. of excavation. Plans, profiles and specifications may be seen at the Township Clerk's office in the village of Moorfield.

CANAL.—Ottawa, Ont.—C. L. Hervey, Consult. Engr., of Montreal, Que., representing the Lake Champlain & St. Lawrence Ship Canal Co., it is reported, has presented plans to the Public Works Department at Ottawa for the construction of 21 miles of canal, 12 ft. deep, from Longuenil to Fryers Island, on the Richelieu River, near St. John.

OIL STORAGE TANKS.—Tampico, Mex.—The Texas Co. of Houston, Tex., it is reported, will construct two oil storage tanks here, each of a capacity of 5,000 bbls..

U. S. POSSESSIONS AND CUBA.

ELECTRIC FLOATING CRANES.—Hawaii.—See item under Miscellaneous Contracts—Electric Floating Cranes, Washington, D. C.

WHARF, TRESTLE.—Cuba.—Bids will be received until 11 a. m., Aug. 12, by the Burea of Yards and Docks,, Navy Dept., Washington, D. C., for a fuel oil and gasoline wharf and the U. S. Naval Station, Guantanamo, Cuba.

STEEL FLAT CARS.—Panama.—Bids will be received until July 24 by Maj. F. C. Boggs, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for steel flat cars, malleable iron castings, brake shoe keys, coupler knuckle pin, lumber and piles, etc., as per Circular No. 637.

*BREAKWATER CONSTRUCTION. — Hawaii.—Bids will be received until 11 a. m., Sept. 8, for breakwater construction at Hilo Harbor, Hawaii, T. H. Information on applictaion to U. S. Engineer Office, 401 Custom House, San Francisco, Cal., or at the office of the U. S. Engineer, Honolulu, T. H.

WHARF.—Cuba.—Bids were received as follows on July 8 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a timber wharf, bulkheads, dredging, filling, etc., at the Naval Station at Guantanamo, Cuba: Henry Monk, Pensacola, Fla., $36,400; alternative, $42,700; Snare & Triest Co., 143 Liberty St., New York, $38,560; Robbins Ripley Co., 30 Church St., New York, wharf only, $64,400, alternative, $66,600.

POWER PLANT EQUIPMENT.—Hawaii.—Bids were received as follows on July 8, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing equipment, boilers, condensors, feed water heaters, etc., for the power plant at Pearl Harbor, T. H.: M. L. Bayard, Bulletin Bldg., Philadelphia, Pa., $158,000; Evans, Almirall & Co., 1 Dominick St., New York, $167,000; Van Harm, Young Co., Ltd., Honolulu, T. H., $159,138. Charles C. Moore & Co., 99 First St., San Francisco, Cal., $158,000. John W. Danforth Co., 72 Ellicott St., Buffalo, N. Y., $153,495; and $147,500, if awarded Mare Island power plant also.

*MATERIAL FOR INTAKE BRIDGES, ETC.—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Com., Washington, D. C., until 10.30 a. m., Aug. 7: For furnishing the material for four intake bridges and structural material for decking over operating machinery chambers in the locks. Blanks and general information relating to this Circular (No. 639) may be obtained at Washington or at the offices of the Assistant Purchasing Agents, 24 State St., New York, ; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa., Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio, Chicago, Ill., St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala.; Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce and Board of Trade, Tacoma, Wash.

EXAMINATIONS.

ASSISTANT ENGINEER IN FOREST PRODUCTS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination, on August 9-10, to secure eligibles from which to make certification to fill two vacancies in the position of Assistant Engineer in Forest Products, at $1,200 a year, in the Forest Service, Department of Agriculture, for duty at Madison, Wis., and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancies by reinstatement, transfer or promotion. The examination will consist of the subjects mentioned below, weighted as indicated: Technique of testing materials, 25 points; mechanics and mathematics, 25 points; drafting and machine structural design, 25 points; training, experience and fitness, 25 points. Applicants must have reached their 20th, but not their 50th, birthday. Examination form 1312.

AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on August 9-10, to secure eligibles from which to make certification to fill about six vacancies in the position of Deck Officer and other vacancies as they may occur in the position of Aid and Deck Officer in the Coast and Geodetic Survey, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer or promotion. As the Commission has experienced considerable difficulty in securing a sufficient number of eligibles to meet the needs of the service in these positions, qualified persons are urged to enter this examination. The examination will consist of the subjects mentioned below, weighted as indicated: Mathematics (including geometry, plain and solid, algebra, trigonometry, analytics and the elements of calculus), 15 points; practical computations (involving the use of logarithmic tables, 15 points; astronomy (elementary questions in spherical and general astronomy, with special reference to determination of latitude, longitude, and azimuth, and use of the field instruments). 10 points; physics (elementary questions in optics, magnetism, etc.), 10 points; surveying (elementary questions in plane and geodetic surveying and use of field instruments), 10 points; modern languages (competitors may selct one of the following: French, German Spanish. Extracts of about 125 words are given for translation into English), 10 points; drawing and descriptive geometry (a short test in topographic drawing and lettering is given, with elementary question on the principles of projection), 10 points; training, experience and fitness, 20 points. Aids are appointed at a salary of $720 a year. The next steps in the line of promotion are to the salaries of $900 and $1,100 as aid, and thence to assistant at $1,200, and then upward by steps of $200 each. The law now provides for 10 aids at $720 a year, 13 aids at $900, 6 aids at $1,100, 34 assistants at $1,200 to $1,800, and 30 assistants at $2,000 to $4,000. These statements of salary are misleading unless taken in connection with the fact hat the necessary traveling expenses incurred in the line of duty are paid by the Government, and that in addition to his salary an aid or assistant is paid an allowance for subsistence to cover the ordinary living expenses while on field duty. During this period the allowance for subsistence is from $1 a day for an officer living on shipboard or in camp in quarters furnished by the Government, to $2.50 a day for a chief of party living at a hotel or other quarters not furnished by the Government. On service in the Philippines the allowance for subsistence is $2.50 a day under all conditions, even at Manila. Deck officers are appointed at a salary of $900 a year for special service on board the ships of the Coast and Geodetic Survey and on hydrographic parties. They receive their traveling expenses and actual subsistence while travelling on official duty. No subsistence is paid them while on duty on the vessels. Deck officers appointed from this examination are eligible to transfer to the position of aid, and are usually promoted in that manner.

INDUSTRIAL NOTES.

THE MULCONROY CO., 772 Arch St., Philadelphia, announce that they have purchased all the patent rights, stock, machinery and fixtures of the Metallic Flexible Tubing Co., 254 South Second St., Philadelphia. The registered brands of the Metallic Flexible Tubing Co. will be continued.

THE WOOD DRILL WORKS, Paterson, N. J., is now using vanadium tungsten iron instead of gray cast-iron for the cylinder, the chest and the airhead of its rock drill. They claim that this iron has a tensile strength under test double that of ordinary cast-iron, and is extremely close grained and takes a fine polish, making it especially advantageous for use in parts subjected to wear.

For other Proposal Advertisements see pages
53, 54, 56, 58, 60
of Advertisements and Construction News, page 24

COODY CREEK SANITARY OUTFALL SEWER.

CONTRACTS G AND H.
SPECIAL BOND ISSUE OF 1911.
MUNICIPAL IMPROVEMENTS FOR MUSKOGEE, OKLAHOMA.

Sealed proposals will be received by the City Council of the City of Muskogee, Oklahoma, at the Council Chamber, until 10 o'clock a. m., July 25, 1911, for the construction of Sections 7 and 8 of the Coody Creek Sanitary Outfall Sewer, and opened immediately thereafter.

Section 7 embraces 3,000 ft. of 39-inch sewer and 4,400 ft. of 30-inch sewer.

Section 8 embraces 3,600 ft, of 27-inch sewer and 7,710 ft. of 18-inch sewer.

Alternate bids are asked for two-ring brick, with vitrified brick invert, manufactured concrete pipe and monolithic concrete with vitrified brick invert, for the 39" and the 30" sewer; and for manufactured concrete pipe and vitrified pipe for the 27" and the 18" sewer.

Proposals for these contracts shall be accompanied by certified checks amounting to 10 per cent. of the amount of the work bid upon, made payable to the City of Muskogee, Oklahoma, without conditions.

Plans and specifications can be secured at the office of the City Engineer, Muskogee, Oklahoma, or at the office of Alexander Potter, Consulting Engineer, 114 Liberty Street, New York City, on or after July 5, 1911, by payment of $3.00 for any or all sections.

The right is reserved to reject any and all bids, and to accept those that, in the opinion of the City Council, are to the best interest of the City. File all bids with Charles Wheeler, Jr., City Clerk.

By order of the City Council.

E. H. FLEMING,
Commissioner of Water, Lights and Sewers.
ALEXANDER POTTER,
Consulting Engineer.
T. P. CLONTS,
City Engineer.

U. S. ENGINEER OFFICE, Honolulu, T. H., June 27, 1911.—Sealed proposals for Breakwater construction at Hilo Harbor, Hawaii, T. H., will be received here until 11 o'clock a. m., Sept. 8, 1911, and then publicly opened. Information on application to U. S. Engineer Office, 401 Custom House, San Francisco, California, or at this office.

INTAKE PIPE.

Toronto, Ont.

The date on which tenders will be received for the laying of the New Intake Pipe in Lake Ontario for the Water-Works Department. has been extended until noon of Monday, 17th July, 1911.

Revised Plans, Specifications and Forms of Tender may be obtained at the office of the City Engineer, Toronto.

Envelopes containing tenders must be plainly marked on the outside as to contents.

The tenderers shall submit with their tender the names of two personal sureties, (approved of by the City Treasurer), not members of the City Council, or officers of the Corporation of the City of Toronto, or in lieu of said sureties the bond of a Guarantee Company, approved as aforesaid.

The usual conditions relating to tendering as prescribed by City By-law must be strictly complied with, or the tenders will not be entertained.

The lowest or any tender not necessarily accepted.

F. S. SPENCE, Acting Mayor,
Chairman, Board of Control.
City Hall, Toronto, July 3d, 1911.

PAVEMENT, CURB AND GUTTERS.

Charlevoix, Mich.

Sealed proposals for building curbs, gutters and pavement and accessories on Michigan Avenue, Dixon Avenue, Mercer Boulevard and Chicago Avenue, in Charlevoix, Michigan, will be received by the City Clerk, at his office at Charlevoix, Michigan, until 12 o'clock (noon), Tuesday, July 25, 1911, as follows:

Michigan Ave., from the bridge north to Dixon Ave., 42 ft. wide between gutters; and Dixon Ave., from Michigan Ave. to Mercer Boulevard., Mercer Boulevard and Chicago Ave., from the terminal of Dixon Ave. easterly to the Pere Marquette Railroad right-of-way, 27 ft. between gutters; all to have six-inch curb and eighteen-inch gutter, of combined curb-and-gutter construction, of concrete and cement.

Bids to be asked for pavement of the following materials: Concrete, such as the sample laid on south end Bridge Street; concrete with a tar, tarvia or other similar compound, spread on the top with sand rolled in for wearing surface; reinforced concrete, or the Bloom system; bitulithic; asphaltic concrete; asphaltic macadam; tar macadam (covering any or all systems of "poured" or penetration pavement; plain macadam with hard-head wearing surface; and any other suitable or desirable pavement for residence streets. Bids to be received separately for the curb-and-gutter. Each bidder to file with his bid a copy of the specifications of construction of the style of pavement he proposes to lay, to be made a part of the contract if accepted. All bids to be accompanied by a certified check for $1,000 as a guarantee of good faith, which will be returned to unsuccessful bidders on execution of a satisfactory contract to complete the work. The Council reserving the right to reject any or all bids. Work to start either early in fall of 1911, or spring of 1912, as the Council may decide.

E. J. HILLER, City Clerk.

BRIDGE SUPERSTRUCTURE.

Bangor, Me.

Proposals will be received at the office of the Mayor of Bangor, Me., until noon of the 24th day of July, 1911, for the building of the superstructure of a steel Highway Bridge between the cities of Bangor and Brewer. Length of spans, 217 and 223 feet.

Stress sheet and specifications may be seen at the office of Engineering News, New York, or may be obtained on application to the Mayor of Bangor on payment of $5,00, which will be repaid on return of proper use of same in making a bona fide proposal.

A certified check for $1,000 will be required with each proposal.

The right is reserved to reject any or all proposals.

E. E. GREENWOOD,
Engineer, Skowhegan, Me.

EXTENSION OF EAST TRUNK SEWER.

City of Pittsfield, Mass.

Sealed bids or proposals for building a section of sewer, addressed to the Clerk of the Board of Public Works, and endorsed "Proposal for Pittsfield Sewer Extension," will be received at the office of the Board of Public Works, City Hall, Pittsfield, Massachusetts, until two o'clock p. m., Wednesday, the nineteenth day of July, 1911. At the above place and time the bids will be publicly opened and read.

Each bid must be accompanied by a certified check drawn upon a national bank or trust company established in Pittsfield, Boston or New York for one thousand dollars ($1,000). A bond in the sum of ten thousand dollars ($10,000) will be required for the faithful performance of the contract.

Pamphlets containing information for bidders, form of proposal, contract and specifications will be mailed to contractors who apply to the Engineer of the Board of Public Works, or may be obtained at this office. The plans may be seen at the same office.

Principal items of work are about 7,500 cubic yards of earth excavation, about 16,000 linear feet of piles, about 200 cubic yards of masonry, about 1,500 linear feet of 8-inch and 12-inch vitrified pipe, and about 4,600 linear feet of 16-inch, 18-inch and 24-inch cast-iron pipe. The printed form must be used in making bids. The right is reserved to reject any or all bids or to accept any bid.

FRANK HOWARD, Chairman; JEREMIAH M. LINNEHAN, CHESTER E. GLEASON, Board of Public Works. A. B. FARNHAM, Engineer, Board of Public Works.

DRAINAGE CONSTRUCTION.

Office of the Sewerage and Water Board,
City Hall Annex,
New Orleans, La.,
July 3, 1911.

Sealed proposals will be received by the Secretary, at the office of the Board, up to 12 o'clock noon, Monday, September 11, 1911, for the construction of the Napoleon Avenue system of drainage canals and pipe lines.

The main items of the work will consist of approximately:

295,000 cubic yards of excavation,
53,000 cubic yards of reinforced concrete,
73,000 lineal feet of 36-inch to 6-inch terra cotta pipe lines,
and other work incident thereto.

Specifications, with blank form of proposal, and general plans, may be obtained upon application at the office of the Board.

A certified check on a New Orleans bank, in the sum of $10,000, deposited in accordance with the terms of the specifications, will be required of each bidder.

A surety company bond, with a company doing business in the State of Louisiana, for an amount equal to 25 per cent. of the gross amount of contract, will be required of the successful bidder.

The right is reserved to reject any or all bids.

F. S. SHIELDS,
Secretary.
GEORGE G. EARL,
General Superintendent.

INTERCEPTING SEWER AND APPURTENANCES, ALONG THE SUSQUEHANNA RIVER, FROM IRON ALLEY TO DIVISION STREET, HARRISBURG, PA.

Sealed proposals will be received at the Office of the Board of Public Works, No. 222 Market Street, Harrisburg, Pennsylvania, until 2.30 o'clock, P. M., Monday, July 31, 1911, for furnishing all materials and performing all labor for the construction of a reinforced concrete and vitrified pipe sewer, with appurtenances, along the east bank of the Susquehanna River, from Iron Alley to Division Street.

The work will consist of about 14,500 linear feet of reinforced concrete sewer, 3,000 linear feet of 30" vitrified pipe sewer, and 24 connections with existing City sewers, with diverting manholes, silt basins, and cast iron and vitrified pipe of various sizes.

Bids will be publicly opened at 3.00 o'clock P. M., Monday, July 31, 1911.

Each bid must be accompanied by a preliminary bond or certified check, to the order of the City Treasurer, for ten (10%) per cent. of the amount of the bid; and a surety company bond in the sum of twenty-five (25%) per cent. of the amount of the contract, will be required of the successful bidder.

Specifications, plans and blank form of proposals, can be obtained after July 20th, at the office of the Board of Public Works, and from James H. Fuertes, Consulting Engineer, No. 140 Nassau Street, New York City, upon making a deposit of twenty-five ($25.00) dollars. The deposit will be given back to the bidder upon the return of the plans and specifications in good order.

The right is reserved to reject any and all proposals.

D. E. TRACY, Secretary,
Board of Public Works.

CONSTRUCTION OF AGENCY HILL RESERVOIR.

MUNICIPAL IMPROVEMENTS
FOR THE
CITY OF MUSKOGEE, OKLAHOMA,
IN ACCORDANCE WITH SPECIAL
BOND ISSUE OF 1911.
CONTRACT L.

Sealed proposals will be received by the City Council of the City of Muskogee, Oklahoma, until 10 o'clock a. m., Tuesday, July 25, 1911, for the construction of Agency Hill Reservoir, and opened immediately thereafter.

The Agency Hill Reservoir is a reinforced concrete circular structure, about 200 feet in diameter, with a maximum depth of 31 feet, and a storage capacity of 6,000,000 gallons.

Proposals for this contract shall be accompanied by a certified check for $10,000 (ten thousand dollars), made payable to the City of Muskogee, Oklahoma, without condition.

Plans and specifications can be secured at the office of the City Engineer, Muskogee, Oklahoma, or at the office of Alexander Potter, Consulting Engineer, 114 Liberty Street, New York City, by payment of $2.50. File all bids with Charles Wheeler, Jr., City Clerk.

The right is reserved to reject any and all bids.

By order of the City Council.

E. H. FLEMING,
Commissioner of Water, Lights and Sewers.
ALEXANDER POTTER,
Consulting Engineer.
T. P. CLONTS,
City Engineer.

STEEL CONCRETE BRIDGE.

Blairsville, Pa.

Sealed proposals will be received by the Town Council of the Borough of Blairsville, Pa., up to 6 o'clock p. m., July 20, 1911, for a steel concrete bridge, 130 feet in length, of the post and girder type, over Sulphur Run, in the Borough of Blairsville, Pa.

Plans and specifications may be seen at the office of H. R. Wiley, City Clerk, Blairsville, Pa., or Engineer E. J. O'Brien, Latrobe, Pa.

All bids must be accompanied by a certified check for $300.00.

Council reserves the right to reject any or all bids.

H. R. WILEY,
Secretary of Council.

SEWERS AND DISPOSAL PLANT.

Hoisington, Kan.

Sealed bids will be received at the office of the City Clerk of the City of Hoisington, Kansas, until 2 P. M. of the 19th day of July, 1911, for the furnishing of all material and labor for the construction of approximately 8.2 miles of sewers and disposal plant for the said City, in accordance with the plans and specifications on file at the office of the City Clerk in the said City of Hoisington, and in the office of the City's Consulting Engineers, Rollins & Westover, 534-5 Beals Building, Kansas City, Mo. Additional sets can be obtained of the Engineers upon the payment of $5.00. In connection with this proposal will be included a certified check in the sum of Fifteen Hundred Dollars ($1,500.00) payable to the City of Hoisington and to be forfeited to the said City in the event said successful bidders shall fail to enter into the contract for the construction of the said work, and to furnish a surety company bond in an amount equal to One Hundred (100%) per cent. of the contract price. Said bond to be approved by the Mayor and City Council of the City of Hoisington. It is to be understood that the Mayor and City Council of the said City reserve the right to reject any or all bids or accept any one without explanation.

Work to be paid for in special assessment improvement bonds.

The attention of bidders is called to Chapter 114 of the Session Laws of 1891, with which they are expected to comply. This is known as the eight hour law.

[Signed] CHAS. HALL,
Mayor.
[Signed] ROLLINS & WESTOVER,
Consulting Engineers.

CONFEDERATE MEMORIAL INSTITUTE.

Richmond, Virginia.

Sealed proposals will be received by the Hon. J. Taylor Ellyson, President of the Confederate Memorial Association, at his office, 924 Mutual Building, Richmond, Va., until 12 o'clock M., on Monday, August 7, 1911, and then opened, for the construction complete (except heating and ventilating apparatus, electric conduits and wiring, gas piping and lighting fixtures) for a building to be known as the "Confederate Memorial Institute," in accordance with drawings and specifications of Bissell & Sinkler, Architects, 805 Bailey Building, Philadelphia, Penna.

Copies of the drawings and specifications and forms of proposals may be obtained from the above Architects on or after Saturday, July 15, 1911. Each application must be accompanied by a certified check for $500.00, payable to the order of the Confederate Memorial Association. The copies of the drawings and specifications must be returned to the Architects in good condition with the proposals; whereupon the above check will be returned; but upon failure of any bidder to return in good condition the drawings and specifications the sum of $25.00 will be forfeited and deducted from the above check. The right is reserved to reject any or all bids.

The contractor to whom the award is made will be required to furnish a bond of a Surety Company in the sum of 50% of the amount of the contract, guaranteeing the faithful performance of the contract.

Copies of the drawings and specifications may be seen also at the office of the Confederate Memorial Association, 924 Mutual Building, Richmond, Va.

SEWER AND WATER MAINS.

Bemidji, Minn.

Sealed bids will be received by the undersigned, to be opened before the City Council of the City of Bemidji, Minn., at at a regular meeting to be held in the Council Room, City Hall, on Monday, July 24, 1911, at 8 o'clock p. m., for laying Storm Sewers, consisting, approximately, of

270 feet of 20-inch pipe.
2,100 feet of 15-inch pipe.
400 feet of 12-inch pipe.
1,000 feet of 10-inch pipe.

7 manholes, 27 inlets and accessories to make said storm sewer complete.

For laying an eight-inch Sanitary Sewer a distance of about 275 feet, including one manhole.

For laying an eight-inch water main a distance of about 700 feet, and a four-inch water main a distance of about 300 feet, including three hydrants, valves, etc.

Plans and specifications are on file in the office of the City Clerk and City Engineer, Bemidji, Minn.; also in the office of "The Improvement Bulletin," Minneapolis, Minn., and "The Engineering News," Chicago, where full information can be obtained.

Certified check in the sum of 10% of the amount bid should accompany the same.

The City Council reserves the right to reject any or all bids.

Dated Bemidji, Minn., July 5, 1911.

GEORGE STEIN,
City Clerk.

CONCRETE STREET PAVING.

Bemidji, Minn.

Sealed bids will be received by the undersigned, to be opened before the City Council of the City of Bemidji, Minn., at a regular meeting to be held in the Council Room, City Hall, on Monday, July 24, 1911, at 8 o'clock p. m., for Paving Streets with Concrete, a distance of about ten blocks, approximating 21,175 square yards.

Plans and specifications are on file in the office of the City Clerk and City Engineer, Bemidji, Minn.; also in the office of "The Improvement Bulletin," Minneapolis, Minn., and office of "The Engineering News," Chicago, where full information can be obtained.

Certified check in the sum of 10% of the amount bid should accompany the same.

The City Council reserves the right to reject any or all bids.

Dated Bemidji, Minn., July 5, 1911.

GEORGE STEIN,
City Clerk.

PROPOSALS FOR MATERIAL FOR four Intake Bridges and the Structural Material for Decking Over Operating Machinery Chambers in the Locks.—Sealed proposals will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., August 7, 1911, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 639) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 614 Whitney-Central Building, New Orleans, La., and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburg, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala.; and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill.; and Chamber of Commerce and Board of Trade, Tacoma, Wash. F. C. BOGGS, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

DITCH.

Kenton, Ohio.

Bids will be received at the Hardin County Auditor's Office until noon, Monday, July 31st, 1911, for the construction of the Ada Sewer Ditch, Ada, Ohio: 4,250' of 48" brick sewer; 3,260' of 30" sewer, and 900' of 18" sewer.

BRIDGE FOUNDATION.

Shreveport, La.

Sealed bids are hereby invited for the building of the sub-structure for a steel traffic bridge over Red River, at Shreveport, La., as per plans and specifications on file in the City Engineer's office at Shreveport, and at the office of Hedrick & Cochrane, 1118 McGee Street, Kansas City, Mo.

Each bid must be accompanied by a certified check for three thousand ($3,000) dollars as an evidence of good faith that the successful bidder will enter into contract.

Each check to be made payable to the undersigned.

An indemnity bond of fifty thousand ($50,000) dollars will be required of the successful bidder.

Approximate cost of the work, eighty-five thousand ($85,000) dollars. The Bridge Committee of Bossier Parish, and the City of Shreveport, La., reserve the right to reject any and all bids.

All bids must be in the hands of the undersigned by 10 a. m., Tuesday, August 1, 1911.

Shreveport, La., July 11, 1911.

L. H. BAKER,
Secretary-Treasurer.

INSTALLATION OF WATER STERILIZATION APPARATUS AND PRESSURE FILTER.

Suffern, N. Y.

Sealed proposals will be received by the Board of Water Commissioners of the Village of Suffern, New York until 8 p. m., Saturday, July 29th, 1911, for the installation of a water sterilization plant and a mechanical pressure filter.

Plans and specifications, etc., can be obtained at the office of Alexander Potter, Consulting Engineer, 114 Liberty Street, New York City, on depositing $1.00.

The right is reserved to reject any or all bids, or to accept any one which may be deemed advantageous to the Village.

By order of the Board of Water Commissioners.

JOHN L. CRANE,
President.
C. B. McPHILLIPS, Clerk.

U. S. ENGINEER OFFICE, Room 2, Custom House, Norfolk, Va., July 1, 1911.—Sealed proposals for dredging South Branch of Elizabeth River, Va., will be received at this office until 12 o'clock, noon, August 2, 1911, and then publicly opened. Information on application. MASON M. PATRICK, Lt. Col., Engrs.

BRIDGE.

Tampa, Fla.

Sealed bids will be received by the Board of Public Works of the City of Tampa, Florida, at their office, Room 28, First National Bank Building, up to 2 o'clock p. m., Wednesday, September 6, 1911, for the construction of a reinforced concrete, or concrete steel bridge, with bascule lift, over the Hillsborough River, at Lafayette Street. A certified check of $10,000 must accompany each bid as a guarantee that the successful bidders will enter into contract according to their bid and specifications within ten days after award of same.

Plans and specifications to accompany each bidder's proposal, a profile of the river at the bridge site, and information can be obtained from the Engineer of the Board. The city reserves the right to reject any or all bids.

D. B. McKAY,
Chairman.
Attest:
ALLEN THOMAS, Clerk.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 6, 1911.—Sealed proposals will be received in this office until 3 o'clock P. M. on the 21st day of August, 1911, and then opened, for the installation of a vacuum cleaning system in the U. S. Court House, Post Office, etc., at Los Angeles, California, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Custodian at Los Angeles, Cal., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

POSTPONEMENT.

FILTER PLANT AND PUMPING STATION.

The date for receiving proposals for filter plant and pumping station by the Board of Water Commissioners, Flint, Mich., has been changed from 2 P. M., July 12th, to 2 P. M., July 20th, 1911.

BOARD OF WATER COMMISSIONERS,
EDWIN STERNER, Pres.

For Additionnal
PROPOSAL
Advertisements
See page 23

Situations Open

(Or Vacant)

WANTED—Several experienced draftsmen familiar with construction work. State experience and salary expected. Address AMERICAN LOCOMOTIVE CO., Rogers Works, Paterson, N. J. 2-2t

WANTED—Structural steel draftsmen, not less than 3 years' experience on detail bridge and building work, with firm of general engineers and contractors, New York City. Address "B. C. 2," Engineering News, New York. 2-1t

WANTED—Dock builder and pile driver foreman. Must be hustler and have good references. State age, experience and salary expected. Address "C. C. 2," Engineering News, New York. 2-1t

WANTED—Grade foreman for State road work. Address "D. C. 2," Engineering News, New York. 2-1t